

Massachusetts Electric Company and
Nantucket Electric Company

Standard Offer Service Filing

Testimony and Exhibits
Of
Michael J. Hager and
Peter T. Zschokke

Book 1 of 2

September 1, 2000

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Submitted by:

Massachusetts Electric

A **National Grid** Company



Nantucket Electric

A **National Grid** Company



MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY

Witness: Hager

DIRECT TESTIMONY

OF

MICHAEL J. HAGER

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY

Witness: Hager
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1 **I. Introduction**

2 Q. Please state your name and business address.

3 A. Michael J. Hager, 55 Bearfoot Road, Northborough, Massachusetts 01532.

4
5 Q. Please state your position.

6 A. I am the Standard Offer Portfolio Manager for National Grid USA Service Company. I
7 am responsible for all power procurement and related activities for the distribution
8 companies of National Grid USA (formerly the New England Electric System) including
9 Massachusetts Electric Company ("Mass. Electric" or "Company"). These activities
10 include the procurement of power for Standard Offer Service and Default Service.
11

12 Q. Will you describe your educational background and training?

13 A. In 1982, I graduated from the University of Hartford with a Bachelor of Science degree in
14 Mechanical Engineering. In 1986, I received a Master of Science degree in Mechanical
15 Engineering from Northeastern University. I am a Licensed Professional Engineer in the
16 Commonwealth of Massachusetts.
17

18 Q. What is your professional background?

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1 A. From 1982 to 1992, I was employed by New England Power Service Company in various
2 engineering positions. In these positions, I provided support to New England Power
3 Company's ("NEP") thermal and hydroelectric generating plants with overall
4 responsibility for the management and control of studies and projects from initiation to
5 completion.

6 From 1992 to 1997, I was employed by NEP where I conducted wholesale and retail
7 power marketing activities involving the sale and purchase of generation resources to and
8 from investor-owned utilities, municipalities, independent power producers, government
9 agencies, brokers, marketers, and end-use retail customers.

10
11 In June 1997, I was promoted to my present position of Standard Offer Portfolio Manager
12 for New England Power Service Company (now National Grid USA Service Company).

13
14 Q. Have you previously testified before the Massachusetts Department of
15 Telecommunications and Energy ("MDTE")?

16 A. Yes.

1

2 **II. Purpose of Testimony**

3 Q. What is the purpose of your testimony?

4 A. The purpose of my testimony is to explain how the various fuel index adjustment
5 provisions contained in the Company's Standard Offer contracts operate, explain the
6 additional costs incurred to date by the Company and to provide an estimate of the
7 currently estimated costs that may be incurred as a result of the fuel index adjustment
8 provisions through the end of next year.

9

10 **III. Company's Proposal**

11 Q. What is the current rate for Standard Service?

12 A. The Company currently charges a uniform rate for Standard Service of 3.8 cents/kWh.
13 This rate was effective for usage on and after January 1, 2000.

14

15 Q. What is the Company's current cost to procure Standard Service.

16 A. For calendar year 2000, the Company is paying a base price of 3.8 cents/kWh for Standard
17 Service. In addition, the Company has been making additional payments to its suppliers
18 pursuant to the various fuel index adjustment provisions contained in the contracts.

19

1 Q. Please explain the fuel index adjustment provisions.

2 A. The Company's contracts with USGen and TransCanada contain a fuel index adjustment
3 provision which provides additional payments to those suppliers in the event of substantial
4 increases in the market price of No. 6 residual fuel oil (1% sulphur) and natural gas. In
5 short, the provision compares the sum of the twelve month rolling average of oil and gas
6 prices to a preset trigger point. If the sum of the fuel index values exceeds the trigger
7 point in a given month then the Company makes additional payments to the suppliers in
8 that month. If the sum of the fuel index values is less than or equal to the trigger point in a
9 given month, no additional payments are made in that month. Comparisons are made each
10 month and thus payments may be made in some months and not in others. A copy of the
11 fuel index adjustment provision is provided as Exhibit MJH-1.

12
13 Q. Do the contracts for the former Eastern Edison Company provide for additional fuel
14 adjustment payments as well?

15 A. Yes. In addition to the base price, these contracts provide for an additional payment which
16 is an adder that is based on the Retail Standard Offer Fuel Index mechanism in the former
17 Eastern Edison Company Standard Service retail tariffs (see Exhibit MJH-2). This
18 mechanism is similar to Mass. Electric's fuel index adjustment provision except that it

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1 uses a six month rolling average of oil and gas prices instead of a twelve month rolling
2 average.

3
4 Q. Has the trigger point been exceeded and additional payments made to suppliers?

5 A. Yes. The trigger point for the former Eastern Edison Company has been exceeded each
6 month in the period January 2000 through July 2000. The trigger point under the USGen
7 and TransCanada contracts has been exceeded in each month in the period April 2000
8 through July 2000 .

9
10 Q. What additional payments has the Company paid to its suppliers as a result of the
11 application of the various fuel index adjustment provisions?

12 A. The Company has made additional payments of up to 0.710 cents/kWh to its suppliers
13 totaling \$19,115,725 through July 2000. Exhibit MJH-3 shows the additional payments
14 on a cents/kWh basis while Exhibit MJH-4 shows the additional payments on a dollar
15 basis.

16
17 Q. Will the Company continue to make payments to its suppliers under the various fuel index
18 adjustment provisions?

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1 A. Yes. Additional payments will be made if, as expected, the oil and gas indices continue
2 to exceed the trigger points.

3

4 Q. Has the Company estimated the amount of additional payments that it may be making as a
5 result of the fuel index adjustment provisions in its contracts?

6 A. Yes. While the Company does not forecast future oil and gas prices, the Company has
7 estimated, based on recent fuel prices, the amount of additional payments that it may make
8 through December 2001.

9

10 Q. Please describe the estimate made by the Company.

11 A. The fuel index adjustment mechanisms are based on the average price of gas as reported in
12 the Wall Street Journal and the average price of oil as reported by Platt's. The Company
13 has estimated future gas prices based on the three day average of gas prices as reported in
14 the Wall Street Journal on 28-Aug-2000, 29-Aug-2000 and 30-Aug-2000. The Company
15 has estimated future oil prices based on the relative change in crude oil futures contracts
16 using the three day average of crude oil prices as reported in the Wall Street Journal on 28-
17 Aug-2000, 29-Aug-2000 and 30-Aug-2000.

18

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1 Q. What are the results of the Company's analysis?

2 A. The analysis indicates that additional fuel index related payments will be made at least
3 through December 2001 and that these payments may be as high as 2 cents/kWh. A
4 summary of the estimated adders is provided in Exhibit MJH-5.

5

6 Q. Does this conclude your testimony?

7 A. Yes. It does.

8

9

Exhibits of
Michael J. Hager

Appendix A. Standard Offer Fuel Adjustment Provision

In the event of substantial increases in the market prices of No. 6 residual fuel oil (1 % sulphur) and natural gas after 1999, MECO will pay additional amounts to Seller in accordance with this Standard Offer Fuel Adjustment Provision, which is calculated as follows:

The Stipulated Price that is in effect for a given billing month is multiplied by a "Fuel Adjustment" that is set equal to 1.0 and thus has no impact on the rate paid unless the "Market Gas Price" plus "Market Oil Price" for the billing month exceeds the "Fuel Trigger Point" then in effect, where:

The Stipulated Price is the following predetermined, flat rate, for energy consumed at the customer meter point:

<u>Calendar Year</u>	<u>Price per Kilowatt hour</u>
1998	2.8 cents
1999	3.1 cents
2000	3.4 cents
2001	3.8 cents
2002	4.2 cents
2003	4.7 cents
2004	5.1 cents

Seller will be paid the difference between the Stipulated Price as adjusted in accordance with this Standard Offer Fuel Adjustment Provision and the Stipulated Price for each kilowatt-hour it provides in the applicable month.

Market Gas Price is the average of the values of "Gas Index" for the most recent available twelve months, where:

Gas Index is the average of the daily settlement prices for the last three days that the NYMEX Contract (as defined below) for the month of delivery trades as reported in the "Wall Street Journal", expressed in dollars per MMBtu. NYMEX Contract shall mean the New York Mercantile Exchange Natural Gas Futures Contract as approved by the Commodity Futures Trading Commission for the purchase and sale of natural gas at Henry Hub;

Market Oil Price is the average of the values of "Oil Index" for the most recent available twelve months, where:

Oil Index is the average for the month of the daily low quotations for cargo delivery of 1.0% sulphur No. 6 residual fuel oil into New York harbor, as reported in "Platt's Oilgram U.S. Marketscan" in dollars per barrel and converted to dollars per MMBtu by dividing by 6.3; and

If the indices referred to above should become obsolete or no longer suitable, MECO shall file alternate indices with the Massachusetts Department of Public Utilities.

Fuel Trigger Point is the following amounts, expressed in dollars per MMBtu, applicable for all months in the specified calendar year:

2000	\$5.35/MMBtu
2001	\$5.35
2002	\$6.09
2003	\$7.01
2004	\$7.74

In the event that the Fuel Trigger Point is exceeded, the Fuel Adjustment value for the billing month is determined based according to the following formula:

$$\text{Fuel Adjustment} = \frac{(\text{Market Gas Price} + \$0.60/\text{MMBtu}) + (\text{Market Oil Price} + \$0.04/\text{MMBtu})}{\text{Fuel Trigger Point} + \$0.60 + \$0.04/\text{MMBtu}}$$

Where:

Market Gas Price, Market Oil Price and Fuel Trigger Point are as defined above. The values of \$.60 and \$.04/MMBtu represent for gas and oil respectively, estimated basis differentials or market costs of transportation from the point where the index is calculated to a proxy power plant in the New England market.

For example if at a point in the year 2002 the Market Gas Price and Market Oil Price total \$6.50 (\$3.50/MMBtu plus \$3.00/MMBtu respectively), the Fuel Trigger Point of \$6.09 would be exceeded. In this case the Fuel Adjustment value would be:

$$\frac{(\$3.50 + \$0.60/\text{MMBtu}) + (\$3.00 + \$0.04/\text{MMBtu})}{\$6.09 + \$0.60 + \$0.04/\text{MMBtu}} = 1.0609$$

The Stipulated Price is increased by this Fuel Adjustment factor for the billing month, becoming 4.4548¢/kWh (4.2 x 1.0609).

In subsequent months the same comparisons are made and, if applicable, a Fuel Adjustment determined.

ATTACHMENT 2

STANDARD OFFER FUEL ADJUSTMENT PROVISION

In the event of substantial increases in the market prices of No. 6 residual fuel oil (1% sulphur) and natural gas after 1999, Mass. Electric and Narragansett will pay additional amounts to Supplier in accordance with this Standard Offer Fuel Adjustment Provision which is calculated as follows:

The Stipulated Price that is in effect for a given billing month is multiplied by a "Fuel Adjustment" that is set equal to 1.0 and thus has no impact on the rate paid unless the "Market Gas Price" plus "Market Oil Price" for the billing month exceeds the "Fuel Trigger Point" then in effect, where:

The Stipulated Price is the following predetermined, flat rate, for energy consumed at the customer meter point:

<u>Calendar Year</u>	<u>Price per Kilowatt hour</u>
2000	3.4 cents (MA) 3.8 cents (RI)
2001	3.8 cents
2002	4.2 cents
2003	4.7 cents
2004	5.1 cents

Supplier will be paid the difference between the Stipulated Price as adjusted in accordance with this Standard Offer Fuel Adjustment Provision and the Stipulated Price for each kilowatt-hour it provides in the applicable month.

Market Gas Price is the average of the values of "Gas Index" for the most recent six months through and including the billing month, where:

Gas Index is the average of the daily settlement prices for the last three days that the NYMEX Contract (as defined below) for the month of delivery trades as reported in the "Wall Street Journal", expressed in dollars per MMBtu. NYMEX Contract shall mean the New York Mercantile Exchange Natural Gas Futures Contract as approved by the Commodity Futures Trading Commission for the purchase and sale of natural gas at Henry Hub;

Market Oil Price is the average of the values of "Oil Index" for the most recent six months through and including the billing month, where:

Oil Index is the average for the month of the daily low quotations for cargo delivery of 1.0% sulphur No. 6 residual fuel oil into New York harbor, as reported in "Platt's Oilgram U.S. Marketscan" in dollars per barrel and converted to dollars per MMBtu by dividing by 6.3; and

Fuel Trigger Point is the following amounts, expressed in dollars per MMBtu, applicable for all months in the specified calendar year:

2000	\$5.35/MMBtu
2001	\$5.35
2002	\$6.09
2003	\$7.01
2004	\$7.74

In the event that the Fuel Trigger Point is exceeded, the Fuel Adjustment value for the billing month is determined based according to the following formula:

$$\text{Fuel Adjustment} = \frac{(\text{Market Gas Price} + \$0.60/\text{MMBtu}) + (\text{Market Oil Price} + \$0.04/\text{MMBtu})}{\text{Fuel Trigger Point} + \$0.60 + \$0.04/\text{MMBtu}}$$

Where:

Market Gas Price, Market Oil Price and Fuel Trigger Point are as defined above. The values of \$.60 and \$.04/MMBtu represent for gas and oil respectively, estimated basis differentials or market costs of transportation from the point where the index is calculated to a proxy power plant in the New England market.

For example if at a point in the year 2002 the Market Gas Price and Market Oil Price total \$6.50 (\$3.50/MMBtu plus \$3.00/MMBtu respectively), the Fuel Trigger Point of \$6.09 would be exceeded. In this case the Fuel Adjustment value would be:

$$\frac{(\$3.50 + \$0.60/\text{MMBtu}) + (\$3.00 + \$0.04/\text{MMBtu})}{\$6.09 + \$0.60 + \$0.04/\text{MMBtu}} = 1.0609$$

The Stipulated Price is increased by this Fuel Adjustment factor for the billing month, becoming 4.4548¢/kWh (4.2 x 1.0609).

The additional amount paid to each supplier, on a per-kilowatt-hour basis, would be 0.2548 ¢/kWh (4.4548 - 4.2).

In subsequent months the same comparisons are made and, if applicable, a Fuel Adjustment determined.

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Witness: Hager
Exhibit MJH-3

Summary of Additional Payments Made

Pursuant to the Fuel Adjustment Provisions

(cents / kWh)

Month	USGen/TCPM Contracts	Former EEC Contracts
Jan-00	-	0.122
Feb-00	-	0.206
Mar-00	-	0.272
Apr-00	0.108	0.257
May-00	0.227	0.312
June-00	0.414	0.397
July-00	0.585	0.710

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Witness: Hager
Exhibit MJH-4

Summary of Additional Payments Made

Pursuant to the Fuel Adjustment Provisions

(Dollars)

Month	USGen/TCPM Contracts	Former EEC Contracts
Jan-00	-	\$ 250,799.31
Feb-00	-	\$ 480,728.95
Mar-00	-	\$ 582,288.90
Apr-00	\$ 1,080,609.19	\$ 534,580.80
May-00	\$ 2,301,892.51	\$ 586,789.11
June-00	\$4,474,187.27	\$838,739.10
July-00	\$6,461,806.38	\$1,523,303.42

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Witness: Hager
Exhibit MJH-5

Summary of Additional Payments Estimated to be
Made Pursuant to the Fuel Adjustment Provisions
(cents/KWH)

Month	USGen/TCPM Contracts	Former EEC Contracts	Weighted Average
Aug-00	.0682	0.957	0.726
Sep-00	0.798	1.090	0.845
Oct-00	0.958	1.337	1.019
Nov-00	1.097	1.604	1.178
Dec-00	1.279	1.799	1.362
Jan-01	1.596	2.067	1.671
Feb-01	1.721	2.122	1.785
Mar-01	1.845	2.224	1.905
Apr-01	1.931	2.195	1.973
May-01	1.968	2.069	1.984
Jun-01	1.921	1.926	1.922
Jul-01	1.877	1.776	1.861
Aug-01	1.874	1.633	1.836
Sep-01	1.821	1.524	1.773
Oct-01	1.734	1.446	1.688
Nov-01	1.652	1.399	1.611
Dec-01	1.572	1.377	1.541

Testimony of
Peter T. Zschokke

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I. Introduction and Qualifications

Q. Please state your full name and business address.

A. Peter T. Zschokke, 55 Bearfoot Road, Northborough, Massachusetts 01532.

Q. Please state your position.

A. I am Vice President and Director of Distribution Financial Analysis for National Grid
USA, formerly New England Electric System.

Q. Will you describe your educational background and training?

A. In 1979, I graduated from Boston University with a Bachelor of Arts degree in
Economics. In 1981, I received a Master of Arts degree in Economics from Boston
University.

Q. What is your professional background?

A. From 1981 to 1983, I was employed by Sundstrand Corporation as a Forecast Analyst
responsible for the development of forecast models of activity in the commercial aviation
industry. From 1983 to 1985, I was employed by Central Vermont Public Service
Corporation as an Economic Analyst responsible for the Marginal Cost of Service Study,
short-term sales forecasts, load research and economic analysis. From 1985 to 1986, I

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1 was employed by Boston Edison company in the Rate Department as a Rate Analyst
2 responsible for steam and electric rate design.
3

4 In 1986, I was hired by the New England Power Service Company as a Rate Analyst in
5 the Rate Department. In 1992, I was promoted to Manager of Retail Rates. In my
6 various positions, I have been responsible for the design of time-of-use rates, allocation
7 methods, computer methods, allocated cost-of-service studies, load research issues and
8 marginal cost rate design. In 1998, I was promoted to Vice President Business Services
9 of The Narragansett Electric Company ("Narragansett"). As Vice President, my duties
10 included supervision of customer service for Narragansett's large accounts, supervision of
11 demand-side management programs for Narragansett, municipal relations and load
12 forecasting. In April 2000, I was named Vice President and Director of Distribution
13 Financial Analysis for National Grid USA Service Corp. In this position, I am
14 responsible for the rates and tariffs of the distribution affiliates of National Grid USA,
15 which includes Massachusetts Electric Company and Nantucket Electric Company
16 (together "Mass. Electric" or "the Company").
17

18 Q. Have you previously testified before the Department of Telecommunications and Energy
19 ("the Department")?

1 A. Yes. I have testified before the Department on many different rate related matters which
2 include allocated cost of service studies, rate design, and other issues.
3

4 **II. Background and Purpose of Filing**

5 **A. Description of Standard Offer Service**

6 Q. What is the purpose of the Company's filing?

7 A. The purpose of the filing is to propose an increase in the rate that is charged to customers
8 for taking standard offer service.
9

10 Q. What is standard offer service?

11 A. Standard offer service, or standard service, represents the generation component of
12 certain customers' electric service. Standard service is provided by the Company to its
13 customers who were customers of record as of the retail access date (March 1, 1998) and
14 have not chosen to take generation service from a competitive supplier.
15

16 Q. Who provides standard offer service?

17 A. Prior to restructuring, the Company's wholesale power affiliates, New England Power
18 Company ("NEP") and Montaup Electric Company ("Montaup"), provided all of the
19 energy supply needs to the pre-merger companies of Mass. Electric, Nantucket Electric

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1 Company, and Eastern Edison Company ("Eastern Edison"). Pursuant to the
2 Massachusetts Utility Restructuring Act (the "Act") and certain settlement agreements,
3 NEP and Montaup sold virtually all of their supply resources. As a result, the pre-merger
4 companies entered into supply contracts with the various asset purchasers. Today, the
5 Company's standard offer supply needs are met through contracts with several different
6 suppliers under contracts through 2004.

7
8 Q. At what price are these companies providing standard offer service supply to the
9 Company's customers?

10 A. The contracts call for the wholesale price of standard offer supply to increase over time.
11 The wholesale contract price is the sum of the applicable fixed price (as shown below)
12 and an additional amount determined in accordance with the standard offer "fuel index"
13 adjustment provision described in Mr. Hager's testimony.

Period	Price in Cents per kWh
1998	3.2
1999	3.5
2000	3.8
2001	3.8
2002	4.2
2003	4.7

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Period	Price in Cents per kWh
2004	5.1

Q. What is the most recent price paid by the Company for standard offer supply?

A. As more fully described in Mr. Hager's testimony, in July 2000, the Company paid approximately 4.4¢ per kWh for standard offer supply, which includes a fixed component of 3.8¢ per kWh and a fuel adjustment component of about 0.6¢ per kWh.

B. Description of Fuel Index Adjustment Provision

Q. How does the fuel adjustment provision work?

A. As described more fully in Mr. Hager's testimony, the fuel adjustment provision provides the wholesale standard offer suppliers with some protection from higher fuel prices. In general, if the sum of No. 6 oil and natural gas prices exceeds a prescribed "trigger" value contained in the contract, an adjustment is made to increase the fixed price by a percentage equal to the amount by which current fuel prices exceed the trigger value, divided by the trigger value.

Q. Why was the fuel index provision included in the standard offer supply contracts?

A. The genesis of the fuel index provision was the intense negotiations among many stakeholders in 1996 relating to the divestiture by NEP of its generation business. At that

1 time, it was understood that, in order for NEP to agree to a fixed supply contract through
2 2004, it was necessary to include protection against excessive inflation in fuel costs
3 because fuel costs could not be controlled by NEP. Hence, an agreement was reached on
4 a fixed schedule that contained the fuel index that would provide NEP or any successor
5 power supplier with extraordinary fuel cost protection. NEP and Montaup were initially
6 obligated to provide the supply at those prices, plus the fuel index. However, in the
7 context of the divestiture of NEP and Montaup's respective generation businesses, the
8 purchasers of the generation assets were required to assume the obligations under those
9 contracts. In fact, assumption of the standard offer contracts was an integral part of that
10 transaction. In the absence of the fuel index provision, it is highly unlikely that NEP or
11 Montaup ever would have received the prices they did for their generation business,
12 because the risk of the fixed schedule would have been taken into account in the
13 economics of the divestiture sales. As a result, the fuel index provided the necessary
14 protection to the suppliers, but at the same time it enabled NEP and Montaup to receive a
15 reasonable price for its supply resources that would benefit customers in reduced stranded
16 cost charges.

17
18 **C. Summary of Proposal**

19 Q. What is the Company's proposal?

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1 A. The Company proposes to raise the price for standard offer service to 4.994¢ per kWh
2 effective for usage on and after October 1, 2000 to cover the current costs being incurred
3 by the Company as a result of the fuel index.
4

5 Q. Why is the Company proposing to change the standard offer rate at this time?

6 A. In 1999, the price of fuel oil and natural gas began to escalate. Fuel prices have since
7 escalated to levels that are two times higher today than in March 1998, the date at which
8 Mass. Electric commenced retail access. As a result, in early 2000, the fuel index
9 provisions of the Company's standard offer supply contracts were triggered. As Mr.
10 Hager explains in his testimony, the forecast for fuel prices are not optimistic. Most
11 outlooks envision higher fuel prices through the winter of 2000-2001. The Company's
12 forecast of standard offer costs and revenues results in a cumulative under collection of
13 approximately \$90 million by the end of 2000 (see Exhibit PTZ-18), and almost \$400
14 million by the end of 2001 (see Exhibit PTZ-18) if the standard offer rate remains at
15 3.800¢ per kWh. This level of under collection would take many years to reduce. During
16 that time, other factors could impede the recovery of costs and cause major problems in
17 Mass. Electric's operations and cash flows. By increasing the standard offer rate by the
18 amount proposed, the Company will begin to recover the current costs that it is incurring
19 as a result of the extraordinary inflation in fuel costs and prevent these under collections

1 from growing to large proportions (see Exhibit PTZ-19).

2
3 Q. Is the Company proposing to price standard offer service at cost?

4 A. Yes. Although Mass. Electric will still have an estimated accumulated under-recovery
5 through the recovery period of approximately \$50 million as of September 30 which it
6 will continue to defer through the end of this year, Mass. Electric is proposing to increase
7 the standard offer rate effective for usage on and after October 1, 2000 by the additional
8 cost it expects to incur through the end of December 2000.

9
10 **III. Current Status of Reconciliation Mechanisms**

11 Q. What is the current status of all of the Company's reconciliation provisions and
12 associated balances?

13 A. Mass. Electric has several reconciliation provisions. First, the Company has a
14 reconciliation provision to track the costs and expenses of standard offer service. As
15 described above, the current estimated under collection for the standard offer is
16 approximately \$50 million as of September 2000. In addition, the Company has a
17 transition charge reconciliation, a default service reconciliation, and a transmission
18 service reconciliation, reflected in tariffs M.D.T.E. No. 1029, M.D.T.E. No. 981-A,

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1 M.D.T.E. No. 987-A, and M.D.T.E. No. 977-D¹. The Company believes it is important
2 to discuss these reconciliations and their estimated balances as of September 30, 2000, as
3 rates effective January 1, 2001 will reflect these balances. Once all of the Company's
4 rates for January 1, 2001 are known, Mass. Electric will file to change its rates. At such
5 time, the Company also will update its estimate of the costs it will be incurring for
6 standard offer service and propose a new standard offer service rate.

7
8 Q. Please describe the estimated balance of the standard offer reconciliation.

9 A. As described more fully in the testimony of Mr. Hager, Mass. Electric has agreements to
10 purchase energy for standard offer customers. Suppliers of standard offer service are paid
11 at the contracted standard offer price in any year, which is currently 3.800¢ per kWh and
12 will be 3.800¢ per kWh as well for calendar year 2001, plus an additional amount based
13 upon the fuel index. The fuel index increased costs for standard offer service in January
14 under the contracts that serve the former Eastern Edison service territory. In April, the
15 fuel index was triggered under the contracts assumed from the NEP sale which supplies
16 standard offer to customers in Mass Electric's service territory. The estimated balance in
17 the reconciliation account for standard offer service through September 30, 2000, with
18 interest through the recovery period, is approximately \$50 million (see Exhibit PTZ-1).

¹ Comparable Nantucket Electric Company tariffs are M.D.T.E. No. 450, M.D.T.E. No. 423, M.D.T.E. No. 424, and M.D.T.E. No. 421-B, respectively.

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1 Please see Exhibit MJH-5 for the actual and forecast fuel index payments on a per kWh
2 basis.

3
4 Q. Please describe the estimated balance of the default service reconciliation.

5 A. The reconciliation of default service costs and revenues results in an estimated under
6 collection of approximately \$33 million through September 30, 2000 through the
7 recovery period (see Exhibit PTZ-3). In Docket D.T.E. 00-45, the Department ordered
8 Mass. Electric to maintain the price for default service at 3.800¢ cents per kWh.
9 Although Mass. Electric projected a cumulative under recovery through September 2000
10 of \$41 million in that docket, the actual cost for default service for the months of July and
11 August are lower as compared to the original estimates.

12
13 Q. Please describe the estimated balance in the transmission service reconciliation.

14 A. Costs for transmission service are much higher than had been forecasted in the
15 Company's December 1, 1999 filing in Docket D.T.E. 99-111. Mass. Electric forecasted
16 annual transmission expense of approximately \$103 million, which resulted in an average
17 base transmission rate of 0.598¢ per kWh. This forecast was revised in the Company's
18 March 31, 2000 filing to reflect the transmission costs relating to Eastern Edison in Mass.
19 Electric's transmission rates. The forecast was revised to approximately \$113.9 million,

1 or 0.570¢ per kWh. Since the development of Mass. Electric's transmission expense
2 forecast, ISO expenses, particularly congestion costs, have been billed at much higher
3 levels than forecast. The transmission reconciliation reflects an estimated under
4 collection of \$17.8 million through September 30, 2000 (see Exhibit PTZ-4).

5
6 **IV. Proposal Overview**

7 Q. Please describe Mass. Electric's proposal.

8 A. Mass. Electric proposes to establish a rate for standard offer service that is designed to
9 match the Company's expected costs with its expected revenues. In order to accomplish
10 this objective, Mass. Electric is proposing a new standard offer rate of 4.994¢ per kWh
11 for usage between October 1, 2000 and December 31, 2000. This rate has been
12 calculated by adding to the fixed standard offer cost of 3.800¢ per kWh the Company's
13 projection of its fuel index payments per kWh for the months of October through
14 December (see Exhibit PTZ-9). This results in an average cost of standard offer service
15 for the three-month period. By charging this average cost, the Company expects to
16 remain current on its standard offer service expenses for this period. Of course, the
17 projection will not necessarily match the precise cost incurred because the exact fuel
18 index payments will depend on actual fuel prices. However, the Company expects that
19 this projection will closely align the standard offer rate charged to customers with the

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1 standard offer costs incurred by the Company for the same period. Any difference
2 between actual cost and revenue billed at the higher rate will be included in the standard
3 offer reconciliation balance. Additionally, this proposal is designed to ensure that Mass.
4 Electric recovers its current costs and stops the standard offer deferral from growing to
5 unacceptably large sums. For the reasons that will be described below, Mass. Electric's
6 proposal is consistent with its Restructuring Settlement approved in Docket
7 D.T.E./D.P.U. 96-25 ("Restructuring Settlement") and the Electric Utility Restructuring
8 Act of 1997 ("the Act").
9

10 Q. Please state the policy reasons for Department action which would raise the standard offer
11 rate at this time.

12 A. Mass Electric's proposal meets several of the Department's long-standing precedents in
13 rate design as well as important policy goals in restructuring. The Company believes its
14 proposal minimizes cross-subsidies across customer classes, reflects proper cost
15 incurrence to customers, and has the potential to promote competition in the retail
16 marketplace.
17

18 Q. Please describe how the Company's proposal may promote competition in the retail
19 marketplace.

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1 A. In the past, marketers have maintained that an increase in the standard offer rate to all
2 standard offer customers would stimulate the retail marketplace for energy. The
3 stimulation of the marketplace is a policy goal for the Department. If marketers are
4 correct, the result should increase market activity by retailers which eventually may allow
5 some customers to leave standard offer service and receive savings from the marketplace.

6
7 Q. Please describe how the Company's proposal minimizes cross-subsidies across customer
8 classes.

9 A. The Department has a long-standing policy to reflect the appropriate costs of service to
10 customers who receive that service. This policy allows decisions by customers based
11 upon actual, current economics. Also, the policy minimizes cross-subsidies from one
12 generation of customers who benefit today from prices lower than cost to a future
13 generation of customers who will have to pay prices that will be higher than cost. The
14 Company's proposal brings the cost of supply closer to its actual cost, thereby reducing
15 the cross-subsidy.

16
17 In sum, recovery of standard offer costs on a current basis provides proper incentives for
18 customers to participate in the market, reduces cross-subsidies among customers, and
19 reduces potential compounding revenue collection issues in the future.

1 **V. Compliance with Restructuring Act and Settlement**

2 Q. Please explain how the increase in the standard offer complies with the Act and the
3 Company's Restructuring Settlement.

4 A. Both the Company's Restructuring Settlement and the Act require the Company's rates to
5 be capped through an inflation factor, benchmarked to rates in effect prior to
6 restructuring. I will describe each below.

7
8 Q. How does the Restructuring Settlement determine the inflation cap?

9 A. Section I.B.(9) of the Company's Restructuring Settlement uses the Consumer Price
10 Index ("CPI") as the measure of inflation, but specifically permits the effects of
11 extraordinary inflation in fuel costs to be taken into account in determining whether the
12 inflation-based rate cap has been exceeded. This is accomplished by excluding the fuel
13 index payments from the calculation. Because fuel costs were totally beyond the control
14 of the distribution company, taking into account the effects of excessive inflation in fuel
15 costs was a critical component for Mass. Electric to be able to assume an obligation to
16 keep its rates capped. Without this integral part of the agreement, Mass. Electric would
17 have been assuming a substantial financial risk with no ability to control it. Ultimately,
18 the Department approved the Restructuring Settlement and found that it substantially
19 complied with and was consistent with the Act in Docket D.T.E./D.P.U. 96-25-B.

1 Q. How is this provision of the Restructuring Settlement substantially the same or consistent
2 with the Act?

3 A. The Restructuring Settlement and the terms of the Act are substantially the same in how
4 the inflation cap should be calculated. Although the Act does not specify the
5 methodology to be used to determine the inflation cap, it gives the Department wide
6 discretion to determine and adjust the measure of inflation to maintain the economic
7 value of the initial rate reduction. Specifically, G.L. c. 164, § 193 1B(e) of the Act
8 expressly states: "The calculation and implementation of the rate reduction and the
9 inflation cap shall be subject to adjustment, review, and approval in accordance with
10 procedures in the rules and regulations promulgated by the department, which shall
11 require that, the economic value of the rate reduction required under this section, be
12 maintained during the standard service transition period."

13
14 Consistent with the Restructuring Settlement, the Department initially approved the CPI
15 as a measure of inflation for purposes of implementing the inflation cap. In fact, this
16 index is a reasonable measure of inflation in terms of electricity costs when there is no
17 extraordinary inflation in fuel costs that affect energy prices. However, when there is an
18 extraordinary increase in the cost of fuel that is beyond the control of the Company, it is
19 reasonable and appropriate for the Department to take such events into account when

1 applying the inflation cap under the Act. Of course, when fuel costs later moderate, it
2 would then be appropriate to return to using the CPI, standing alone, to measure inflation.
3 That is precisely how the mechanics of the Company's Restructuring Settlement operate.
4

5 Q. How can extraordinary inflation in fuel costs be taken into account?

6 A. In order to appropriately reflect this extraordinary inflation, the simplest way to do so is
7 to reflect the increases in the fuel index in the calculation, as was contemplated in the
8 Company's Restructuring Settlement. Once the rolling average of fuel prices falls below
9 the fuel index trigger value, the effect of the fuel index calculations would be removed
10 from the equation.
11

12 Q. Why would you remove the effect of the fuel index from the inflation-adjusted
13 benchmark rate once the fuel index payments return to zero?

14 A. To prevent further increases in cost deferrals, Mass. Electric's proposal is targeted to the
15 recovery of current fuel index payments only, consistent with the Restructuring
16 Settlement. In that regard, Mass. Electric is not proposing to increase the inflation factor
17 in future periods if the fuel index is at zero and Mass. Electric is no longer making
18 additional payments to its standard offer suppliers. In this case, Mass. Electric would
19 lower its standard offer rate to the base standard offer cost for the year and restate the

1 inflation index and the benchmark rate as if the fuel index payments had never occurred.

2 Mass. Electric would not compound the effects of the fuel index payments for future

3 periods. Thus, consistent with the Restructuring Settlement, the fuel index effect on the

4 measure of inflation occurs only during those periods when there is extraordinary

5 inflation in fuel costs and is removed completely once those extraordinary conditions are

6 no longer present.

7
8 **VI. Details of Proposal**

9 Q. Has the Company prepared an analysis supporting the increase to the standard offer rate
10 for October 1, 2000?

11 A. Yes it has. Exhibit PTZ-7 is a summary of the proposed rate changes requested to
12 become effective for usage on and after October 1, 2000. This summary shows the
13 requested 1.194¢ per kWh increase to the standard offer rate of 3.800¢ per kWh, resulting
14 in an increased standard offer rate of 4.994¢ per kWh. The summary also shows a
15 revenue neutral distribution rate redesign for Mass. Electric's Rate R-4, Optional
16 Residential Time-of-Use, as allowed in Docket D.T.E. 99-47, approved March 14, 2000,
17 as well as Temporary Statutory Compliance Credits for Rate R-4 and selected streetlight
18 fixtures contained in the Company's streetlight rate classes, in order to ensure the rate
19 reductions required under the Act and to comply with Department guidelines on

1 measuring these rate reductions.

2
3 Q. How did the Company determine the fuel-related adjustment to the inflation calculation
4 described above?

5 A. The Company's inflation adjustment revised to include a fuel-related adjustment is
6 included as Exhibit PTZ-8. For the reasons described above, the Company proposes to
7 calculate the benchmark rate in a manner which includes the effect of the fuel index. The
8 starting point for this calculation is the previously-filed benchmark rate calculation for the
9 year 2000, updated to reflect actual inflation through June 30, 2000. The CPI-inflated
10 benchmark rate is calculated using the mid-year convention which determines the CPI-
11 inflated benchmark rate for the year by an estimate of inflation through the middle of the
12 year. The increase in the fuel index is then added to the CPI-inflated benchmark rate for
13 2000 and a new inflation-adjusted benchmark rate is computed. Exhibit PTZ-8 presents
14 this calculation for the total company average rate, and this calculation is replicated for
15 each of the Company's rate classes in Exhibit PTZ-14.

16
17 Q. How is the fuel adjustment reflected in Exhibit PTZ-8 calculated?

18 A. The fuel adjustment of 1.194¢ per kWh that is added to the CPI-inflated benchmark rate
19 is calculated in Exhibit PTZ-9. This calculation arrives at the projected weighted average

1 incremental cost of fuel the Company expects to incur during the months of October
2 through December 2000.

3
4 Q. Please describe the overall approach to rate design once the benchmark rate and the
5 proposed standard offer rate are determined.

6 A. Mass. Electric approaches the final determination for new rates by considering first the
7 effect of any rate change on rate classes for which the 15% rate reduction level is most
8 difficult to achieve: Residential Time-of-Use Rate R-4 and Streetlights.

9
10 Q. What steps did the Company take to ensure the rate reductions for Rate R-4?

11 A. The Company first performed a revenue neutral distribution rate redesign to help ensure
12 the 15% rate reduction for this rate class, as well as the 14% rate reduction requirement at
13 the customer level. This redesign is found in Exhibit PTZ-10. Essentially, it uses the
14 distribution revenue requirement from the Company's restructuring settlement in Docket
15 D.T.E./D.P.U. 96-25 and redesigns the distribution rates. This is following a similar
16 methodology the Company used in its March 31, 2000 transmission rate filing, in which
17 Rate R-4 had been redesigned to more closely align customers in this rate class to the
18 15% rate reduction required under the Act. A second rate redesign is proposed in this
19 filing in order to allow for the proposed increase to the standard offer rate to 4.994¢ per

1 kWh. In this redesign, the off peak distribution energy charge is reduced by a little more
2 than 2 mils, and the remainder of the distribution revenue requirement is collected
3 through the on peak distribution energy charge.
4

5 Q. Has the inflation adjustment for Rate R-4 been revised to reflect the proposal by the
6 Company?

7 A. Yes it has. Exhibit PTZ-11 illustrates the inflation adjustment including the effects of the
8 fuel index payments. This exhibit calculates an inflation multiplier that is applied to
9 customer bill calculations to arrive bills based on August 1997 rates adjusted for inflation
10 contained in Exhibit PTZ-12.
11

12 Q. Was this redesign sufficient to meet the rate reduction requirement of the Act?

13 A. No. Therefore, in addition to the distribution rate redesign, Mass. Electric is also
14 proposing a Temporary Statutory Compliance Credit to the off peak distribution energy
15 charge for Rate R-4 of 0.119¢ per kWh, effective for usage on and after October 1, 2000.
16 This temporary credit was determined in Exhibit PTZ-12. Exhibit PTZ-12 measures for
17 specific Rate R-4 customers the rate reduction required under the Act in accordance with
18 the Department's guidelines. Although the 15% rate reduction is implemented on a rate
19 class basis, the Department has instructed that a 14% rate reduction be required at the

1 customer level. This exhibit illustrates Mass. Electric's compliance with this guideline
2 once the redesigned distribution rates as well as the Temporary Statutory Compliance
3 Credit are reflected in the bill calculation. The inflation multiplier developed in Exhibit
4 PTZ-11 is used to adjusted the August 1997 bill in Column (g) of Exhibit PTZ-12 to
5 arrive at an August 1997 bill adjusted for inflation. This is then compared to a bill
6 calculated based on the same billing determinants but reflecting the proposed distribution
7 rates redesigned in Exhibit PTZ-10 and the temporary off peak credit, all other currently
8 effective rates, and the proposed increased standard offer rate of 4.994¢ per kWh.

9
10 Q. How does this proposed increase affect the Company's other rate classes?

11 A. Exhibit PTZ-13 indicates that at the rate class level, the proposed standard offer rate and
12 revised inflation adjustment provides the mandatory rate reductions for all of the
13 Company's rate classes. The revised inflation adjustment including the effects of the fuel
14 index payments as well as all other rate changes proposed in this filing. However,
15 reviewing the individual streetlight fixtures and the rate reductions provided to a
16 customer who may receive streetlight service from only one type of fixture, the Company
17 noted several instances in which the Department's guidelines were not being met. This
18 comparison is performed in Exhibit PTZ-14.

1 Q. What does Exhibit PTZ-14 show?

2 A. Exhibit PTZ-14 is similar to Exhibit PTZ-12 in that it presents a comparison of the
3 Company's proposed rates for October 1, 2000 to August 1997 rates adjusted for inflation
4 (including the effects of the fuel index payments), in order to identify any instances in
5 which the proposal does not allow the Company to meet the Department's guidelines.
6 This comparison is done at the streetlight fixture level on the assumption that a customer
7 can be served by only one street lighting fixture, therefore the Department's guidelines
8 for customer-specific rate reductions should be met on this basis. As can be seen from
9 review of Exhibit PTZ-14, there are several street light types that do not meet the
10 customer-specific rate reduction requirements of the Department and reflect savings of
11 less than 14%. Rather than perform a revenue neutral distribution rate redesign for these
12 lights similar to what was done for Rate R-4 in Exhibit PTZ-10, the Company has chosen
13 to institute a temporary statutory compliance credit in order to achieve a 14% rate
14 reduction for these types of lighting fixtures. The quantity of fixtures are relatively small
15 in number, therefore the reduction in distribution revenue from instituting these
16 temporary credits is minimal.

17
18 Q. How has the Company reflected Eastern Edison in this proposal?

19 A. Any under collection balances from Eastern Edison's reconciliation mechanisms which

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1 functioned prior to its merger with Mass. Electric effective on May 1, 2000 have been
2 reflected in Mass. Electric's own reconciliations included in Exhibits PTZ-1 and PTZ-3.
3 Transmission costs and revenue at Eastern Utilities Associates was reconciled by
4 Montaup Electric Company, therefore there was no retail reconciliation balance for
5 Eastern Edison. In terms of measuring for the statutory rate reductions, all rate
6 comparisons have been prepared at Mass. Electric's rates in accordance with the merger
7 settlement agreement approved by the Department in Docket D.T.E. 99-47.

8
9 Q. Has the Company included proposed tariffs in its filing to reflect all of its proposed rate
10 changes?

11 A. Yes it has. These tariff cover sheets for all rates and tariffs for Rates R-4, S-1, S-2, S-3
12 and S-20 (clean and marked to show changes) are located in Exhibit PTZ-15 for
13 Massachusetts Electric Company and Exhibit PTZ-16 for Nantucket Electric Company.

14
15 Q. Has the Company prepared a typical bill analysis showing the impact of the Company's
16 proposed rate changes?

17 A. Yes it has. Typical bills reflecting the rate changes proposed by Mass. Electric are
18 included as Exhibit PTZ-17. The impact of the proposed standard offer rate increase on a
19 500 kWh residential customers is an increase of \$5.97, or 12.3%, as compared to rates

1 currently in effect.

2

3 **VI. Conclusion**

4 Q. Does this conclude your testimony?

5 A. Yes it does.

MASSACHUSETTS ELECTRIC COMPANY
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List of Exhibits

Exhibit PTZ-1	Estimated Standard Service Under Collection as of September 30, 2000
Exhibit PTZ-2	Reconciliation of Standard Service Under Recovery Incurred March 1998 -- September 1998
Exhibit PTZ-3	Estimated Default Service Under Collection as of September 30, 2000
Exhibit PTZ-4	Estimated Transmission Charge Reconciliation as of September 30, 2000
Exhibit PTZ-5	Transmission Under Recovery Reconciliation Incurred March 1998 -- September 1998
Exhibit PTZ-6	Transmission Under Recovery Reconciliation Incurred October 1998 -- September 1999
Exhibit PTZ-7	Summary of October 1, 2000 Proposed Rate Changes
Exhibit PTZ-8	Proposed Inflation Adjustment Calculation
Exhibit PTZ-9	Projected Average Fuel Index Payments for October 2000 -- December 2000
Exhibit PTZ-10	Rate R-4 Revenue Neutral Distribution Rate Redesign
Exhibit PTZ-11	Rate R-4 Inflation Adjustment
Exhibit PTZ-12	Rate R-4 Savings from August 1997 Rates Adjusted for Inflation
Exhibit PTZ-13	Rate Class Savings for October 1, 2000 Proposed Rate Change
Exhibit PTZ-14	Streetlight Savings for October 1, 2000 Proposed Rate Change
Exhibit PTZ-15	Proposed Tariffs for Massachusetts Electric Company (Clean and Marked to Show Changes)
Exhibit PTZ-16	Proposed Tariffs for Nantucket Electric Company (Clean and Marked to Show Changes)
Exhibit PTZ-17	Typical Bills for October 1, 2000 Proposed Rate Change
Exhibit PTZ-18	Projected Standard Offer Under Collection as of December 2000 and December 2001 Assuming No Change in Standard Offer Rate
Exhibit PTZ-19	Projected Standard Offer Under Collection as of December 2000 and December 2001 Assuming Proposed Standard Offer Rate Change

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Exhibit PTZ-1

Estimated Standard Service Under Collection
as of September 30, 2000

31-Aug-2000

Massachusetts Electric Company

Nantucket Electric Company

M.D.T.E. No.

Exhibit PTZ-1

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Massachusetts Electric Company

Nantucket Electric Company

Estimated Standard Service Under Collection

October 1, 1999 - September 30, 2000

October 1999-
September 2000

(1)	Estimated Undercollection	(\$48,846,688)
(2)	Estimated Interest During Recovery Period	<u>(\$1,794,380)</u>
(3)	Estimated Undercollection Including Interest	(\$50,641,068)

(1)	Page 3 of 5
(2)	Page 2 of 5, Column (g)
(3)	Line (1) + Line (2)

31-Aug-2000

Massachusetts Electric Company
Nantucket Electric Company

Calculation of Estimated Interest on Standard Service Undercollection

	<u>Beginning Undercollection With Interest</u> (a)	<u>Estimated Refund</u> (b)	<u>Ending Undercollection</u> (c)	<u>Balance Subject to Interest</u> (d)	<u>Interest Rate</u> (e)	<u>Interest</u> (f)	<u>Cumulative Interest</u> (g)
November	(\$48,846,688)		(\$48,846,688)	(\$48,846,688)	5.43%	(\$221,031)	(\$221,031)
December	(\$49,067,720)		(\$49,067,720)	(\$49,067,720)	5.43%	(\$222,031)	(\$443,063)
January 1, 2001	(\$49,289,751)	\$4,107,479	(\$45,182,272)	(\$47,236,011)	5.43%	(\$213,743)	(\$656,806)
February	(\$45,396,015)	\$4,126,910	(\$41,269,104)	(\$43,332,559)	5.43%	(\$196,080)	(\$852,885)
March	(\$41,465,184)	\$4,146,518	(\$37,318,666)	(\$39,391,925)	5.43%	(\$178,248)	(\$1,031,134)
April	(\$37,496,914)	\$4,166,324	(\$33,330,590)	(\$35,413,752)	5.43%	(\$160,247)	(\$1,191,381)
May	(\$33,490,838)	\$4,186,355	(\$29,304,483)	(\$31,397,660)	5.43%	(\$142,074)	(\$1,333,456)
June	(\$29,446,557)	\$4,206,651	(\$25,239,906)	(\$27,343,232)	5.43%	(\$123,728)	(\$1,457,184)
July	(\$25,363,634)	\$4,227,272	(\$21,136,362)	(\$23,249,998)	5.43%	(\$105,206)	(\$1,562,390)
August	(\$21,241,568)	\$4,248,314	(\$16,993,255)	(\$19,117,411)	5.43%	(\$86,506)	(\$1,648,896)
September	(\$17,079,761)	\$4,269,940	(\$12,809,821)	(\$14,944,791)	5.43%	(\$67,625)	(\$1,716,521)
October	(\$12,877,446)	\$4,292,482	(\$8,584,964)	(\$10,731,205)	5.43%	(\$48,559)	(\$1,765,080)
November	(\$8,633,523)	\$4,316,761	(\$4,316,761)	(\$6,475,142)	5.43%	(\$29,300)	(\$1,794,380)
December	(\$4,346,061)	\$4,346,061	(\$0)	(\$2,173,031)	5.43%	\$0	(\$1,794,380)
Total Recovery		\$50,641,068					

- (a) January 1 per Page 1, Line (3); all other months = prior month Column (c) + prior month Column (f)
 (b) Column (a) ÷ number of remaining months in recovery period
 (c) Column (a) + Column (b)
 (d) Average of Column (a) and Column (c)
 (e) Interest rate on customer deposits
 (f) Column (d) x [Column (e) ÷ 12]
 (g) Prior month Column (g) + Current month Column (f)

31-Aug-2000

Massachusetts Electric Company
Nantucket Electric Company
Standard Service Reconciliation
October 1999 - September 2000

<u>Month</u>	<u>Over/(Under) Beginning Balance</u> (a)	<u>Standard Service Revenue</u> (b)	<u>Standard Service Adjustment</u> (c)	<u>Standard Service Expense</u> (d)	<u>Over/(Under) Ending Balance</u> (e)	<u>Balance Subject to Interest</u> (f)	<u>Interest Rate</u> (g)	<u>Interest</u> (h)	<u>Cumulative Interest</u> (i)
Oct-1999	\$0	\$17,262,302		\$36,383,546	(\$19,121,244)	(\$9,560,622)	5.13%	(\$39,941)	(\$39,941)
Nov-1999	(\$19,161,185)	\$36,170,578		\$36,355,049	(\$19,345,656)	(\$19,253,420)	5.13%	(\$80,434)	(\$120,375)
Dec-1999	(\$19,426,090)	\$40,623,970		\$41,386,004	(\$20,188,124)	(\$19,807,107)	5.13%	(\$82,747)	(\$203,123)
Jan-2000	(\$20,270,871)	\$43,355,494		\$48,272,160	(\$25,187,537)	(\$22,729,204)	5.43%	(\$100,375)	(\$303,498)
Feb-2000	(\$25,287,912)	\$47,174,479	(\$4,044,235)	\$42,864,691	(\$25,022,359)	(\$25,155,136)	5.43%	(\$111,089)	(\$414,587)
Mar-2000	(\$25,133,448)	\$42,321,593		\$41,883,860	(\$24,695,714)	(\$24,914,581)	5.43%	(\$110,026)	(\$524,613)
Apr-2000	(\$24,805,740)	\$38,541,266		\$39,102,044	(\$25,366,518)	(\$25,086,129)	5.43%	(\$110,784)	(\$635,397)
May-2000	(\$25,477,302)	\$44,114,612	(\$6,326,720)	\$48,569,355	(\$36,258,766)	(\$30,868,034)	5.43%	(\$136,318)	(\$771,715)
Jun-2000	(\$36,395,083)	\$47,086,363		\$54,408,579	(\$43,717,299)	(\$40,056,191)	5.43%	(\$176,894)	(\$948,608)
Jul-2000	(\$43,894,193)	\$51,819,153		\$58,112,128	(\$50,187,168)	(\$47,040,681)	5.43%	(\$207,738)	(\$1,156,347)
Aug-2000	(\$50,394,907)	\$50,298,213		\$59,907,818	(\$60,004,512)	(\$55,199,709)	5.43%	(\$243,770)	(\$1,400,117)
Sep-2000	(\$60,248,282)	\$48,818,812		\$59,674,574	(\$71,104,044)	(\$65,676,163)	5.43%	(\$290,035)	(\$1,690,152)
Oct-2000	(\$71,394,080)	\$22,812,307			(\$48,581,773)	(\$59,987,926)	5.43%	(\$264,915)	(\$1,955,067)
		\$530,399,142	(\$10,370,956)	\$566,919,808					

Cumulative Under Collection of Standard Service

(\$48,846,688)

- (a) Prior Month Column (e) + Prior Month Column (h)
 (b) Page 2
 Jan-2001: represents December 2000 usage billed in January 2001 at 50% of January 2001 kWh sales
 (c) Feb-2000: Final remaining underrecovery balance per PTZ-2 from 1998 collected during 1999
 May-2000: Final Eastern Edison underrecovery balance of \$5,595,426 plus net true-up of April 2000 revenue and expense of \$598,981 (lower revenue of \$74,337 plus additional expense of \$524,644)
 (d) Page 3
 (e) Column (a) + Column (b) + Column (c) - Column (d)
 (f) [Column (a) + Column (e)] ÷ 2
 (g) Interest Rate on Customer Deposits
 (h) Column (f) x [(1 + Column (g)) ^ (1 ÷ 12) - 1]
 (i) Column (h) + Prior Month Column (e)

Massachusetts Electric Company
Nantucket Electric Company
Standard Service Revenue

	Standard Service Rate (a)	Projected Standard Service kWh Sales (b)	Total Standard Service Revenue (c)	1999 Standard Service Adjustment Revenue (d)	2000 Standard Service Adjustment Refund (e)	Base Standard Service Revenue (f)
<u>Actual:</u>						
October 1999			\$18,282,454	\$1,020,152		\$17,262,302
November			\$38,309,800	\$2,139,222		\$36,170,578
December			\$43,026,939	\$2,402,969		\$40,623,970
January 2000			\$44,547,127	\$1,191,633	(1)	\$43,355,494
February			\$47,174,479		(1)	\$47,174,479
March			\$42,321,593		(1)	\$42,321,593
April			\$38,541,266		(1)	\$38,541,266
May			\$44,114,612		(1)	\$44,114,612
June			\$47,086,363		(1)	\$47,086,363
July			\$51,819,153		(1)	\$51,819,153
<u>Projected:</u>						
August	\$0.03800	1,323,637,174	\$50,298,213		(1)	\$50,298,213
September	\$0.03800	1,284,705,580	\$48,818,812		(1)	\$48,818,812
October	\$0.03800	600,323,858	<u>\$22,812,307</u>		<u>(1)</u>	<u>\$22,812,307</u>
			\$537,153,118	\$6,753,976	\$0	\$530,399,142

- (a) Current standard offer rate
(b) Total Company forecast x percentage of standard offer kWhs to total kWhs billed for the month of July 2000
(c) Actual: Monthly SMB702, Monthly Standard Service Revenue Report
October 1999 represents October-only usage billed in October; October 2000 represents September 2000 usage billed in October 2000
Projected: Column (a) x Column (b)
(d) Exhibit PTZ-2, Page 2

Massachusetts Electric Company
Nantucket Electric Company
Standard Service Expense

	Backstop Standard Service Rate (a)	Fuel Index Payments per kWh (b)	Total Standard Service Rate (c)	Projected Standard Service kWh Sales (d)	Standard Service Bill (e)	Supplier Reallocations (f)	Total Expense (g)
<u>Actual:</u>							
October 1999					\$36,428,242	(\$44,696)	\$36,383,546
November					\$36,355,049		\$36,355,049
December					\$41,386,004		\$41,386,004
January 2000					\$48,272,160		\$48,272,160
February					\$42,864,691		\$42,864,691
March					\$41,883,860		\$41,883,860
April					\$39,102,044		\$39,102,044
May					\$48,569,355		\$48,569,355
June					\$54,408,579		\$54,408,579
July					\$58,112,128		\$58,112,128
<u>Projected:</u>							
August	\$0.03800	\$0.00726	\$0.04526	1,323,637,174	\$59,907,818		\$59,907,818
September	\$0.03800	\$0.00845	\$0.04645	1,284,705,580	<u>\$59,674,574</u>		<u>\$59,674,574</u>
Total					\$566,964,504		\$566,919,808

- (a) Per Standard Offer Contract
 (b) Per M. Hager
 (c) Column (a) + Column (b)
 (d) Total Company forecast x percentage of standard offer kWhs to total kWhs billed for the month of July 2000
 (e) Actual: Monthly default service invoices
 Projected: Column (c) x Column (d)
 (f) Monthly default service invoices
 (g) Column (e) + Column (f)

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MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-2

**Reconciliation of Standard Service Under Recovery
Incurred March 1998 -- September 1998**

28-Aug-2000

Massachusetts Electric Company
Reconciliation of Standard Service Under Recovery
Incurred March 1998 - September 1998

<u>Month</u>	<u>Beginning Under Recovery Balance</u> (a)	<u>Standard Service Adjustment Revenue</u> (b)	<u>Forecasted Revenue</u> (c)	<u>Ending Under Recovery Balance</u> (d)	<u>Balance Subject to Interest</u> (e)	<u>Interest Rate</u> (f)	<u>Interest</u> (g)	<u>Cumulative Interest</u> (h)
Jan-1999	\$32,690,530	\$1,748,107		\$30,942,423	\$31,816,477	5.13%	\$132,918	\$132,918
Feb-1999	\$31,075,342	\$2,792,713		\$28,282,628	\$29,678,985	5.13%	\$123,989	\$256,907
Mar-1999	\$28,406,617	\$2,719,395		\$25,687,222	\$27,046,920	5.13%	\$112,993	\$369,900
Apr-1999	\$25,800,215	\$2,336,818		\$23,463,397	\$24,631,806	5.13%	\$102,903	\$472,803
May-1999	\$23,566,301	\$2,075,083		\$21,491,218	\$22,528,759	5.13%	\$94,118	\$566,921
Jun-1999	\$21,585,335	\$2,253,323		\$19,332,013	\$20,458,674	5.13%	\$85,469	\$652,390
Jul-1999	\$19,417,482	\$2,660,593		\$16,756,889	\$18,087,185	5.13%	\$75,562	\$727,952
Aug-1999	\$16,832,451	\$2,587,068		\$14,245,383	\$15,538,917	5.13%	\$64,916	\$792,869
Sep-1999	\$14,310,299	\$2,479,623		\$11,830,677	\$13,070,488	5.13%	\$54,604	\$847,473
Oct-1999	\$11,885,281	\$2,215,146		\$9,670,135	\$10,777,708	5.13%	\$45,026	\$892,498
Nov-1999	\$9,715,160	\$2,139,222		\$7,575,938	\$8,645,549	5.13%	\$36,118	\$928,616
Dec-1999	\$7,612,056	\$2,402,969		\$5,209,087	\$6,410,572	5.13%	\$26,781	\$955,398
Jan-2000	\$5,235,868	\$1,191,633		\$4,044,235	\$4,640,052	5.43%	\$0	\$955,398
		\$29,601,692						
Remaining Recovery				\$4,044,235				

- (a) Prior Month Column (d) + Prior Month Column (g)
 (b) Page 2
 (c) December 1, 1998 Rate Filing, Schedule TMB-8, Page 2
 (d) Column (a) - Column (b) - Column (c)
 (e) [Column (a) + Column (d)] ÷ 2
 (f) Interest Rate on Customer Deposits
 (g) Column (e) x [(1 + Column (f)) ^ (1 ÷ 12) - 1]
 (h) Column (g) + Prior Month Column (h)

28-Aug-2000

Massachusetts Electric Company
1999 Standard Service Adjustment Revenue

	kWh <u>Sales</u> (a)	1999 Standard Service Adjustment <u>Factor</u> (b)	Standard Service Adjustment <u>Revenue</u> (c)
January 1999	844,496,056	\$0.00207	\$1,748,107
February	1,349,136,844	\$0.00207	\$2,792,713
March	1,313,717,390	\$0.00207	\$2,719,395
April	1,128,897,420	\$0.00207	\$2,336,818
May	1,002,455,335	\$0.00207	\$2,075,083
June	1,088,561,743	\$0.00207	\$2,253,323
July	1,285,310,771	\$0.00207	\$2,660,593
August	1,249,791,230	\$0.00207	\$2,587,068
September	1,197,885,320	\$0.00207	\$2,479,623
October	1,070,118,915	\$0.00207	\$2,215,146
November	1,033,440,582	\$0.00207	\$2,139,222
December	1,160,854,734	\$0.00207	\$2,402,969
January 2000	<u>575,668,133</u>	\$0.00207	<u>\$1,191,633</u>
Total	14,300,334,473		\$29,601,692

- (a) kWhs per Monthly SMB702, Monthly Standard Service Revenue Report
 (b) Approved Standard Service Adjustment Factor for 1999
 (c) Column (a) x Column (b)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-3

Estimated Default Service Under Collection
as of September 30, 2000

30-Aug-2000

Massachusetts Electric Company

Nantucket Electric Company

M.D.T.E. No.

Exhibit PTZ-3

Page 1 of 5

Massachusetts Electric Company

Nantucket Electric Company

Estimated Default Service Under Collection

October 1, 1999 - September 30, 2000

October 1999-
September 2000

(1)	Estimated Under Collection	(\$32,101,153)
(2)	Estimated Interest During Recovery Period	<u>(\$1,179,234)</u>
(3)	Undercollection Including Interest	(\$33,280,387)

(1)	Page 3 of 5
(2)	Page 2 of 5, Column (g)
(3)	Line (1) + Line (2)

30-Aug-2000

Massachusetts Electric Company
Nantucket Electric Company

Calculation of Estimated Interest on Default Service Undercollection

	<u>Beginning Undercollection With Interest</u> (a)	<u>Estimated Recovery</u> (b)	<u>Ending Undercollection</u> (c)	<u>Balance Subject to Interest</u> (d)	<u>Interest Rate</u> (e)	<u>Interest</u> (f)	<u>Cumulative Interest</u> (g)
November	(\$32,101,153)		(\$32,101,153)	(\$32,101,153)	5.43%	(\$145,258)	(\$145,258)
December	(\$32,246,411)		(\$32,246,411)	(\$32,246,411)	5.43%	(\$145,915)	(\$291,173)
January 1, 2001	(\$32,392,326)	\$2,699,361	(\$29,692,966)	(\$31,042,646)	5.43%	(\$140,468)	(\$431,641)
February	(\$29,833,434)	\$2,712,130	(\$27,121,303)	(\$28,477,368)	5.43%	(\$128,860)	(\$560,501)
March	(\$27,250,163)	\$2,725,016	(\$24,525,147)	(\$25,887,655)	5.43%	(\$117,142)	(\$677,642)
April	(\$24,642,289)	\$2,738,032	(\$21,904,257)	(\$23,273,273)	5.43%	(\$105,312)	(\$782,954)
May	(\$22,009,568)	\$2,751,196	(\$19,258,372)	(\$20,633,970)	5.43%	(\$93,369)	(\$876,323)
June	(\$19,351,741)	\$2,764,534	(\$16,587,206)	(\$17,969,474)	5.43%	(\$81,312)	(\$957,635)
July	(\$16,668,518)	\$2,778,086	(\$13,890,432)	(\$15,279,475)	5.43%	(\$69,140)	(\$1,026,774)
August	(\$13,959,572)	\$2,791,914	(\$11,167,657)	(\$12,563,614)	5.43%	(\$56,850)	(\$1,083,625)
September	(\$11,224,508)	\$2,806,127	(\$8,418,381)	(\$9,821,444)	5.43%	(\$44,442)	(\$1,128,067)
October	(\$8,462,823)	\$2,820,941	(\$5,641,882)	(\$7,052,352)	5.43%	(\$31,912)	(\$1,159,978)
November	(\$5,673,794)	\$2,836,897	(\$2,836,897)	(\$4,255,345)	5.43%	(\$19,255)	(\$1,179,234)
December	(\$2,856,152)	\$2,856,152	\$0	(\$1,428,076)	5.43%	\$0	(\$1,179,234)
Total Recovery		\$33,280,387					

- (a) January 1 per Page 1, Line (3); all other months = prior month Column (c) + prior month Column (f)
 (b) Column (a) ÷ number of remaining months in recovery period
 (c) Column (a) + Column (b)
 (d) Average of Column (a) and Column (c)
 (e) Interest rate on customer deposits
 (f) Column (d) x [Column (e) ÷ 12]
 (g) Prior month Column (g) + Current month Column (f)

30-Aug-2000

Massachusetts Electric Company
Nantucket Electric Company
Estimated Default Service Reconciliation
October 1999 - September 2000

<u>Month</u>	<u>Over/(Under) Beginning Balance</u> (a)	<u>Default Service Revenue</u> (b)	<u>Default Service Adjustment</u> (c)	<u>Default Service Expense</u> (d)	<u>Over/(Under) Ending Balance</u> (e)	<u>Balance Subject to Interest</u> (f)	<u>Interest Rate</u> (g)	<u>Interest</u> (h)	<u>Cumulative Interest</u> (i)
Oct-1999	\$0	\$2,212,106		\$5,369,191	(\$3,157,085)	(\$1,578,542)	5.13%	(\$6,595)	(\$6,595)
Nov-1999	(\$3,163,679)	\$5,119,754		\$6,163,868	(\$4,207,793)	(\$3,685,736)	5.13%	(\$15,398)	(\$21,992)
Dec-1999	(\$4,223,191)	\$6,179,161		\$7,326,737	(\$5,370,767)	(\$4,796,979)	5.13%	(\$20,040)	(\$42,033)
Jan-2000	(\$5,390,807)	\$6,958,336		\$8,805,898	(\$7,238,370)	(\$6,314,589)	5.43%	(\$27,886)	(\$69,919)
Feb-2000	(\$7,266,256)	\$8,219,951		\$8,981,793	(\$8,028,098)	(\$7,647,177)	5.43%	(\$33,771)	(\$103,690)
Mar-2000	(\$8,061,869)	\$8,129,275		\$9,498,824	(\$9,431,417)	(\$8,746,643)	5.43%	(\$38,626)	(\$142,316)
Apr-2000	(\$9,470,044)	\$7,654,565		\$9,373,160	(\$11,188,639)	(\$10,329,341)	5.43%	(\$45,616)	(\$187,932)
May-2000	(\$11,234,255)	\$9,373,848	(\$742,299)	\$10,246,163	(\$12,848,869)	(\$12,041,562)	5.43%	(\$53,177)	(\$241,109)
Jun-2000	(\$12,902,046)	\$10,552,615		\$19,292,872	(\$21,642,303)	(\$17,272,175)	5.43%	(\$76,276)	(\$317,386)
Jul-2000	(\$21,718,580)	\$12,485,309		\$21,741,532	(\$30,974,803)	(\$26,346,692)	5.43%	(\$116,351)	(\$433,736)
Aug-2000	(\$31,091,154)	\$12,118,186		\$17,539,480	(\$36,512,448)	(\$33,801,801)	5.43%	(\$149,274)	(\$583,010)
Sep-2000	(\$36,661,721)	\$11,761,755		\$12,380,795	(\$37,280,761)	(\$36,971,241)	5.43%	(\$163,270)	(\$746,280)
Oct-2000	(\$37,444,031)	\$5,496,101			(\$31,947,931)	(\$34,695,981)	5.43%	(\$153,222)	(\$899,503)
		\$106,260,961	(\$742,299)	\$136,720,313					

Cumulative Under Collection of Default Service

(\$32,101,153)

- (a) Prior Month Column (e) + Prior Month Column (h)
(b) Page 2
(c) May-2000: Final Eastern Edison underrecovery balance of \$979,173 less net true-up of April 2000 revenue and expense of -\$18,633 (lower revenue of \$27,227 less lower expense of \$45,860)
(d) Page 3
(e) Column (a) + Column (b) + Column (c) - Column (d)
(f) [Column (a) + Column (e)] ÷ 2
(g) Interest Rate on Customer Deposits
(h) Column (f) x [(1 + Column (g)) ^ (1 ÷ 12) - 1]
(i) Column (h) + Prior Month Column (i)

Massachusetts Electric Company
Nantucket Electric Company
Default Service Revenue

	Default Service Rate (a)	Projected Default Service kWh Sales (b)	Total Default Service Revenue (c)	2000 Default Service Adjustment Revenue (d)	Base Default Service Revenue (e)
<u>Actual:</u>					
October 1999			\$2,212,106	(1)	\$2,212,106
November			\$5,119,754	(1)	\$5,119,754
December			\$6,179,161	(1)	\$6,179,161
January 2000			\$6,958,336	(2)	\$6,958,336
February			\$8,219,951	(2)	\$8,219,951
March			\$8,129,275	(2)	\$8,129,275
April			\$7,654,565	(2)	\$7,654,565
May			\$9,373,848	(2)	\$9,373,848
June			\$10,552,615	(2)	\$10,552,615
July			\$12,485,309	(2)	\$12,485,309
<u>Projected:</u>					
August	\$0.03800	318,899,636	\$12,118,186	(2)	\$12,118,186
September	\$0.03800	309,519,880	\$11,761,755	(2)	\$11,761,755
October	\$0.03800	144,634,224	<u>\$5,496,101</u>	<u>(2)</u>	<u>\$5,496,101</u>
Total			\$106,260,961		\$106,260,961

- (a) Currently effective rate through end of 2000
(b) Total Company forecast x percentage of default service kWhs to total kWhs billed for the month of July 2000
(c) Monthly SMB702, Monthly Default Service and Standard Service 3 Revenue Reports
October 1999 represents October-only usage billed in October; October 2000 represents September usage billed in October
(d)
(e) Column (c) - Column (d)
(1) There is no default service adjustment factor during 1999.
(2) During 2000, the default service adjustment factor is not reflected in the price for default service as it is applied to all customers. It is added into distribution rates for billing purposes only.

Massachusetts Electric Company
Nantucket Electric Company
Default Service Expense

	Estimated/ Actual Contract Price (a)	Projected Default Service kWh Sales (b)	Default Service Bill (c)	Supplier Reallocations (d)	Total Expense (e)
<u>Actual:</u>					
October 1999			\$5,818,318	(\$449,128)	\$5,369,191
November			\$6,163,868		\$6,163,868
December			\$7,326,737		\$7,326,737
January 2000			\$8,805,898		\$8,805,898
February			\$8,981,793		\$8,981,793
March			\$9,498,824		\$9,498,824
April			\$9,373,160		\$9,373,160
May			\$10,246,163		\$10,246,163
June			\$19,292,872		\$19,292,872
July			\$21,741,532		\$21,741,532
<u>Projected:</u>					
August	\$0.05500	318,899,636	\$17,539,480		\$17,539,480
September	\$0.04000	309,519,880	<u>\$12,380,795</u>		<u>\$12,380,795</u>
Total			\$137,169,441		\$136,720,313

- (a) Estimated contract price for July and August, actual contract price for September and October, and estimate of the market price for November and December
- (b) Total Company forecast x percentage of default service kWhs to total kWhs billed for the month of July 2000
- (c) Actual: Monthly default service invoice
Projected: Column (a) x Column (b)
- (d) Monthly default service invoice
- (e) Column (c) + Column (d)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-4

Estimated Transmission Charge Reconciliation
as of September 30, 2000

28-Aug-2000

Massachusetts Electric Company
 Nantucket Electric Company
 M.D.T.E. No.
 Exhibit PTZ-4
 Page 1 of 4

Massachusetts Electric Company
 Nantucket Electric Company
 Estimated Transmission Charge Reconciliation
 October 1999 - September 2000

Month	Over/(Under) Beginning Balance (a)	Transmission Revenue (b)	Transmission Adjustment (c)	Transmission Expense (d)	Monthly Over/(Under) (e)	Over/(Under) Ending Balance (f)	Balance Subject to Interest (g)	Interest Rate (h)	Interest (i)	Cumulative Interest (j)
<u>Actual:</u>										
Oct-1999	\$0	\$3,899,575		\$7,108,119	(\$3,208,544)	(\$3,208,544)	(\$1,604,272)	0.00%	\$0	\$0
Nov-1999	(\$3,208,544)	\$7,185,973		\$9,559,764	(\$2,373,791)	(\$5,582,335)	(\$4,395,439)	0.00%	\$0	\$0
Dec-1999	(\$5,582,335)	\$8,098,621		\$11,733,418	(\$3,634,797)	(\$9,217,132)	(\$7,399,733)	0.00%	\$0	\$0
Jan-2000	(\$9,217,132)	\$8,816,814		\$7,609,111	\$1,207,703	(\$8,009,429)	(\$8,613,280)	0.00%	\$0	\$0
Feb-2000	(\$8,009,429)	\$9,800,070	\$362,839	\$10,456,154	(\$293,245)	(\$8,302,674)	(\$8,156,051)	0.00%	\$0	\$0
Mar-2000	(\$8,302,674)	\$8,856,122		\$12,155,531	(\$3,299,409)	(\$11,602,083)	(\$9,952,378)	0.00%	\$0	\$0
Apr-2000	(\$11,602,083)	\$8,060,419		\$8,376,968	(\$316,549)	(\$11,918,631)	(\$11,760,357)	0.00%	\$0	\$0
May-2000	(\$11,918,631)	\$8,611,382		\$12,572,188	(\$3,960,806)	(\$15,879,437)	(\$13,899,034)	0.00%	\$0	\$0
Jun-2000	(\$15,879,437)	\$4,563,561			\$4,563,561	(\$11,315,877)	(\$13,597,657)	0.00%	\$0	\$0
Cumulative Under Collection of Transmission Charge through May 2000						(\$11,315,877)				
<u>Projected:</u>										
Jun-2000	(\$11,315,877)	\$4,563,561		\$10,637,681	(\$6,074,120)	(\$17,389,997)	(\$14,352,937)	0.00%	\$0	\$0
Jul-2000	(\$17,389,997)	\$10,236,039		\$10,637,681	(\$401,642)	(\$17,791,639)	(\$17,590,818)	0.00%	\$0	\$0
Aug-2000	(\$17,791,639)	\$8,958,067		\$10,637,681	(\$1,679,614)	(\$19,471,253)	(\$18,631,446)	0.00%	\$0	\$0
Sep-2000	(\$19,471,253)	\$8,694,018		\$10,637,681	(\$1,943,663)	(\$21,414,916)	(\$20,443,084)	0.00%	\$0	\$0
Oct-2000	(\$21,414,916)	\$3,613,085			\$3,613,085	(\$17,801,831)	(\$19,608,374)	0.00%	\$0	\$0
		\$103,957,306	\$362,839	\$122,121,977						
Cumulative Under Collection of Transmission Charge through September 2000						(\$17,801,831)				

- (a) Prior Month Column (d) + Prior Month Column (g)
 (b) Page 2
 (c) Feb-2000: Final overrecovery balance per PTZ-7 from 1998 collected during 1999
 (d) Page 3
 (e) Column (b) + Column (c) - Column (d)
 (f) Column (a) + Column (e)
 (g) [Column (a) + Column (f)] ÷ 2
 (h) None stated
 (i)
 (j) Column (i) + Prior Month Column (j)

Massachusetts Electric Company
Nantucket Electric Company
Total Transmission Revenue

	kWh Sales (a)	Total Average Transmission Rate (b)	Total Transmission Revenue (c)	Less 1999 Transmission Adjustment Revenue (d)	Less 2000 Transmission Adjustment Revenue (e)	Transmission Revenue (f)	Less HVM Credit (g)	Net Transmission Revenue (h)
<u>Actual:</u>								
October 1999			\$4,578,638	\$670,105		\$3,908,533	(\$8,958)	\$3,899,575
November			\$8,625,073	\$1,426,624		\$7,198,449	(\$12,476)	\$7,185,973
December			\$9,710,546	\$1,599,021		\$8,111,525	(\$12,904)	\$8,098,621
January 2000			\$10,064,066	\$791,722	\$443,087	\$8,829,257	(\$12,444)	\$8,816,814
February			\$10,723,646		\$908,778	\$9,814,867	(\$14,797)	\$9,800,070
March			\$9,695,932		\$825,521	\$8,870,411	(\$14,289)	\$8,856,122
April			\$8,829,155		\$754,924	\$8,074,231	(\$13,812)	\$8,060,419
May			\$9,470,852		\$846,209	\$8,624,642	(\$13,260)	\$8,611,382
June			\$10,043,219		\$901,249	\$9,141,970	(\$14,849)	\$9,127,121
July			\$11,257,067		\$1,005,298	\$10,251,769	(\$15,730)	\$10,236,039
<u>Projected:</u>								
August	1,745,394,206	\$0.00570	\$9,948,747		\$975,745	\$8,973,002	(\$14,935)	\$8,958,067
September	1,694,024,892	\$0.00570	\$9,655,942		\$946,977	\$8,708,965	(\$14,948)	\$8,694,018
October	791,655,244	\$0.00570	<u>\$4,512,435</u>		<u>\$885,049</u>	<u>\$3,627,386</u>	<u>(\$14,301)</u>	<u>\$3,613,085</u>
Total			\$117,115,318	\$4,487,472	\$8,492,837	\$104,135,010	(\$177,703)	\$103,957,306

- (a) Per Company forecast
(b) Attachment 2 of March 31, 2000 transmission rate filing in docket 99-47
(c) Actual: Monthly SMB702 Report, Monthly Standard Offer, Open Access, Default Service Revenue Reports
Projected: Column (a) x Column (b)
(d) Exhibit PTZ-7
(e) Exhibit PTZ-8
(f) Column (c) - Column (d) - Column (e)
(g) Page 4
(h) Column (f) - Column (g)

[illegible]

Massachusetts Electric Company
Nantucket Electric Company
Transmission Expense

	NEP Transmission Expense (a)	NEPOOL Transmission Expense (b)	ISO Transmission Expense (c)	Total Transmission Expense (d)
<u>Actual:</u>				
October 1999	\$5,394,049	\$1,912,050	(\$197,980)	\$7,108,119
November	\$6,126,750	\$2,223,679	\$1,209,335	\$9,559,764
December	\$6,657,544	\$2,303,530	\$2,772,344	\$11,733,418
January 2000	\$2,151,444	\$2,588,635	\$2,869,032	\$7,609,111
February	\$4,551,366	\$2,429,058	\$3,475,730	\$10,456,154
March	\$6,330,236	\$3,265,597	\$2,559,698	\$12,155,531
April	\$2,432,224	\$3,012,373	\$2,932,371	\$8,376,968
May	\$5,487,338	\$3,330,664	\$3,754,186	\$12,572,188
<u>Projected:</u>				
June	\$5,369,707	\$2,633,198	\$2,634,776	\$10,637,681
July	\$5,369,707	\$2,633,198	\$2,634,776	\$10,637,681
August	\$5,369,707	\$2,633,198	\$2,634,776	\$10,637,681
September	<u>\$5,369,707</u>	<u>\$2,633,198</u>	<u>\$2,634,776</u>	<u>\$10,637,681</u>
Total	\$60,609,778	\$31,598,379	\$29,913,819	\$122,121,977

- (a) Actual: Monthly NEP invoices
Projected: Average of invoices from prior 8 months
- (b) Actual: Monthly NEPOOL invoices
Projected: Average of invoices from prior 8 months
- (c) Actual: Monthly ISO invoices
Projected: Average of invoices from prior 8 months
- (d) Column (a) + Column (b) + Column (c)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-5

Transmission Under Recovery Reconciliation
Incurred March 1998 -- September 1998

28-Aug-2000

Massachusetts Electric Company

Nantucket Electric Company

M.D.T.E. No.

Exhibit PTZ-5

Page 1 of 3

Massachusetts Electric Company
Nantucket Electric Company
Transmission Under Recovery Reconciliation
Incurred March 1998 - September 1998

<u>Month</u>	<u>Beginning Under Recovery Balance</u> (a)	<u>Transmission Adjustment Revenue</u> (b)	<u>Ending Under Recovery Balance</u> (c)	<u>Balance Subject to Interest</u> (d)	<u>Interest Rate</u> (e)	<u>Interest</u> (f)	<u>Cumulative Interest</u> (g)
Jan-1999	(\$17,991,579)	\$962,028	(\$17,029,551)	(\$17,510,565)	0.00%	\$0	\$0
Feb-1999	(\$17,029,551)	\$1,588,608	(\$15,440,942)	(\$16,235,246)	0.00%	\$0	\$0
Mar-1999	(\$15,440,942)	\$1,558,677	(\$13,882,266)	(\$14,661,604)	0.00%	\$0	\$0
Apr-1999	(\$13,882,266)	\$1,365,370	(\$12,516,896)	(\$13,199,581)	0.00%	\$0	\$0
May-1999	(\$12,516,896)	\$1,293,877	(\$11,223,019)	(\$11,869,957)	0.00%	\$0	\$0
Jun-1999	(\$11,223,019)	\$1,415,550	(\$9,807,469)	(\$10,515,244)	0.00%	\$0	\$0
Jul-1999	(\$9,807,469)	\$1,690,855	(\$8,116,614)	(\$8,962,042)	0.00%	\$0	\$0
Aug-1999	(\$8,116,614)	\$1,619,313	(\$6,497,302)	(\$7,306,958)	0.00%	\$0	\$0
Sep-1999	(\$6,497,302)	\$1,590,679	(\$4,906,622)	(\$5,701,962)	0.00%	\$0	\$0
Oct-1999	(\$4,906,622)	\$1,452,095	(\$3,454,527)	(\$4,180,575)	0.00%	\$0	\$0
Nov-1999	(\$3,454,527)	\$1,426,624	(\$2,027,903)	(\$2,741,215)	0.00%	\$0	\$0
Dec-1999	(\$2,027,903)	\$1,599,021	(\$428,883)	(\$1,228,393)	0.00%	\$0	\$0
Jan-2000	(\$428,883)	\$791,722	\$362,839	(\$33,022)	0.00%	\$0	\$0
			\$18,354,418				
Resulting Over Collection of 1998 Under Recovery						\$362,839	

- (a) Prior Month Column (d) + Prior Month Column (g)
 (b) Page 2
 (c) Column (a) - Column (b)
 (d) [Column (a) + Column (c)] ÷ 2
 (e)
 (f) Column (c) x [Column (e) ÷ 12]
 (g) Column (f) + Prior Month Column (g)

Massachusetts Electric Company
Nantucket Electric Company
1999 Transmission Cost Adjustment Recovery

	kWh <u>Sales</u> (a)	1999 Transmission Adjustment <u>Factor</u> (b)	Total 1999 Transmission Adjustment <u>Revenue</u> (c)	Less HMV <u>Discount</u> (d)	Net 1999 Transmission Adjustment <u>Revenue</u> (e)
January 1999	909,519,236	\$0.00106	\$964,090	\$2,062	\$962,028
February	1,501,357,749	\$0.00106	\$1,591,439	\$2,831	\$1,588,608
March	1,473,125,223	\$0.00106	\$1,561,513	\$2,836	\$1,558,677
April	1,290,555,247	\$0.00106	\$1,367,989	\$2,619	\$1,365,370
May	1,223,082,238	\$0.00106	\$1,296,467	\$2,590	\$1,293,877
June	1,338,006,354	\$0.00106	\$1,418,287	\$2,737	\$1,415,550
July	1,597,930,175	\$0.00106	\$1,693,806	\$2,951	\$1,690,855
August	1,530,326,536	\$0.00106	\$1,622,146	\$2,834	\$1,619,313
September	1,503,408,252	\$0.00106	\$1,593,613	\$2,933	\$1,590,679
October	1,372,592,368	\$0.00106	\$1,454,948	\$2,853	\$1,452,095
November	1,348,483,174	\$0.00106	\$1,429,392	\$2,768	\$1,426,624
December	1,511,211,111	\$0.00106	\$1,601,884	\$2,863	\$1,599,021
January 2000	<u>747,641,886</u>	\$0.00106	<u>\$792,500</u>	<u>\$779</u>	<u>\$791,722</u>
Total	17,347,239,549		\$18,388,074	\$33,656	\$18,354,418

- (a) kWhs per Monthly SMB702 Report, Monthly Standard Offer, Open Access, Default Service Revenue Reports
- (b) Approved Transmission Adjustment Factor for 1999
- (c) Column (a) x Column (b)
- (d) Page 3
- (e) Column (c) - Column (d)

Massachusetts Electric Company
Nantucket Electric Company
High Voltage Metering Discount Relating to 1999 Transmission Adjustment Factor Recovery
kWh's Subject to Discount

	<u>kWh</u>	<u>1% Discount</u>	<u>1999 Transmission Adjustment Factor</u>	<u>HVM Discount</u>
	(a)	(b)	(c)	(d)
January 1999	194,521,982	1,945,220	\$0.00106	\$2,062
February	267,069,221	2,670,692	\$0.00106	\$2,831
March	267,551,919	2,675,519	\$0.00106	\$2,836
April	247,047,234	2,470,472	\$0.00106	\$2,619
May	244,358,541	2,443,585	\$0.00106	\$2,590
June	258,202,969	2,582,030	\$0.00106	\$2,737
July	278,417,555	2,784,176	\$0.00106	\$2,951
August	267,322,084	2,673,221	\$0.00106	\$2,834
September	276,728,919	2,767,289	\$0.00106	\$2,933
October	269,159,699	2,691,597	\$0.00106	\$2,853
November	261,133,871	2,611,339	\$0.00106	\$2,768
December	270,096,546	2,700,965	\$0.00106	\$2,863
January 2000	73,464,870	734,649	\$0.00106	<u>\$779</u>
Total				\$33,656

- (a) SMB073, kWhs subject to discount
(b) Column (a) x 1%
(c) Approved Transmission Adjustment Factor for 1999

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-6

Transmission Under Recovery Reconciliation
Incurred October 1998 -- September 1999

28-Aug-2000

Massachusetts Electric Company

Nantucket Electric Company

M.D.T.E. No.

Exhibit PTZ-6

Page 1 of 3

Massachusetts Electric Company
Nantucket Electric Company
Transmission Under Recovery Reconciliation
Incurred October 1998 - September 1999

<u>Month</u>	<u>Beginning Under Recovery Balance</u> (a)	<u>Transmission Adjustment Revenue</u> (b)	<u>Ending Under Recovery Balance</u> (c)	<u>Balance Subject to Interest</u> (d)	<u>Interest Rate</u> (e)	<u>Interest</u> (f)	<u>Cumulative Interest</u> (g)
<u>Actual:</u>							
Jan-2000	(\$10,525,654)	\$443,087	(\$10,082,567)	(\$10,304,110)	0.00%	\$0	\$0
Feb-2000	(\$10,082,567)	\$908,778	(\$9,173,788)	(\$9,628,177)	0.00%	\$0	\$0
Mar-2000	(\$9,173,788)	\$825,521	(\$8,348,267)	(\$8,761,028)	0.00%	\$0	\$0
Apr-2000	(\$8,348,267)	\$754,924	(\$7,593,343)	(\$7,970,805)	0.00%	\$0	\$0
May-2000	(\$7,593,343)	\$846,209	(\$6,747,134)	(\$7,170,239)	0.00%	\$0	\$0
Jun-2000	(\$6,747,134)	\$901,249	(\$5,845,885)	(\$6,296,509)	0.00%	\$0	\$0
Jul-2000	(\$5,845,885)	\$1,005,298	(\$4,840,587)	(\$5,343,236)	0.00%	\$0	\$0
<u>Projected:</u>							
Aug-2000	(\$4,840,587)	\$975,745	(\$3,864,842)	(\$4,352,715)	0.00%	\$0	\$0
Sep-2000	(\$3,864,842)	\$946,977	(\$2,917,866)	(\$3,391,354)	0.00%	\$0	\$0
Oct-2000	(\$2,917,866)	\$885,049	(\$2,032,817)	(\$2,475,341)	0.00%	\$0	\$0
Nov-2000	(\$2,032,817)	\$891,519	(\$1,141,298)	(\$1,587,057)	0.00%	\$0	\$0
Dec-2000	(\$1,141,298)	\$1,007,537	(\$133,761)	(\$637,529)	0.00%	\$0	\$0
Jan-2001	(\$133,761)	\$520,489	\$386,728	\$126,484	0.00%	\$0	\$0
		\$10,912,382					
Remaining Under Recovery						\$386,728	

- (a) Prior Month Column (d) + Prior Month Column (g)
 (b) Page 2
 (c) Column (a) - Column (b)
 (d) [Column (a) + Column (c)] ÷ 2
 (e)
 (f) Column (c) x [Column (e) ÷ 12]
 (g) Column (f) + Prior Month Column (g)

Massachusetts Electric Company
Nantucket Electric Company
2000 Transmission Cost Adjustment Recovery

	kWh Sales (a)	2000 Transmission Adjustment Factor (b)	Total 2000 Transmission Adjustment Revenue (c)	Less HMV Discount (d)	Net 2000 Transmission Adjustment Revenue (e)
January 2000	792,918,602	\$0.00056	\$444,034	\$947	\$443,087
February	1,625,619,370	\$0.00056	\$910,347	\$1,568	\$908,778
March	1,476,849,092	\$0.00056	\$827,035	\$1,515	\$825,521
April	1,350,693,705	\$0.00056	\$756,388	\$1,464	\$754,924
May	1,513,745,070	\$0.00056	\$847,697	\$1,488	\$846,209
June	1,612,056,577	\$0.00056	\$902,752	\$1,503	\$901,249
July	1,798,326,298	\$0.00056	\$1,007,063	\$1,765	\$1,005,298
	<u>forecast</u>				
August	1,745,394,206	\$0.00056	\$977,421	\$1,676	\$975,745
September	1,694,024,892	\$0.00056	\$948,654	\$1,677	\$946,977
October	1,583,310,488	\$0.00056	\$886,654	\$1,605	\$885,049
November	1,594,837,098	\$0.00056	\$893,109	\$1,590	\$891,519
December	1,802,117,964	\$0.00056	\$1,009,186	\$1,649	\$1,007,537
January 2001	<u>930,868,587</u>	\$0.00056	<u>\$521,286</u>	<u>\$797</u>	<u>\$520,489</u>
Total			\$10,931,627	\$19,244	\$10,912,382

- (a) kWhs per Monthly SMB702 Report, Monthly Standard Offer, Open Access, Default Service Revenue Reports
 (b) Approved Transmission Adjustment Factor for 2000
 (c) Column (a) x Column (b)
 (d) Page 3
 (e) Column (c) - Column (d)

28-Aug-2000

Massachusetts Electric Company
Nantucket Electric Company
High Voltage Metering Discount Relating to 2000 Transmission Adjustment Factor Recovery
kWh's Subject to Discount

	<u>kWh</u> (a)	<u>1% Discount</u> (b)	<u>2000 Transmission Adjustment Factor</u> (c)	<u>HVM Discount</u> (d)
<u>Actual:</u>				
January 2000	169,100,177	1,691,002	\$0.00056	\$947
February	280,072,103	2,800,721	\$0.00056	\$1,568
March	270,494,142	2,704,941	\$0.00056	\$1,515
April	261,510,463	2,615,105	\$0.00056	\$1,464
May	265,688,594	2,656,886	\$0.00056	\$1,488
June	268,306,022	2,683,060	\$0.00056	\$1,503
July	315,214,770	3,152,148	\$0.00056	\$1,765
<u>Projected:</u>				
August	299,257,738	2,992,577	\$0.00056	\$1,676
September	299,525,079	2,995,251	\$0.00056	\$1,677
October	286,586,585	2,865,866	\$0.00056	\$1,605
November	283,932,842	2,839,328	\$0.00056	\$1,590
December	294,437,852	2,944,379	\$0.00056	\$1,649
January 2001	142,374,999	1,423,750	\$0.00056	<u>\$797</u>
Total				\$19,244

- (a) Actual: SMB073, kWhs subject to discount; Projected: Based on actual kWhs subject to discount ÷ total kWhs, times Company forecast
- (b) Column (a) x 1%
- (c) Approved Transmission Adjustment Factor for 2000
- (d) Column (b) x Column (c)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-7

Summary of October 1, 2000 Proposed Rate Changes

Massachusetts Electric Company
Nantucket Electric Company

Standard Offer Rate

Rate Class	Current Standard Offer & Default Service Rate (a)	Proposed Standard Offer & Default Service Rates			Increase in Standard Offer & Default Service Rate (e) (d) - (a)
		Current Standard Offer & Default Service Rate (b)	Standard Offer & Default Service Increase (c)	Proposed Standard Offer & Default Service Rate (d) (b) + (c)	
R-1	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
R-2	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
R-4 on peak	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
R-4 off peak	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
E	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
G-1	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
G-2	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
G-3	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
Streetlights	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194
I-1	\$0.03800	\$0.03800	\$0.01194	\$0.04994	\$0.01194

Distribution Rates

Current Distribution Rates (a)	Proposed Distribution Rates				Increase/ (Decrease) (f)
	Proposed Rates (b)	Settlement Reduction (c)	Temp. Statutory Compliance Credit (d)	Incl. All Reductions (e)	
R-4 Customer Charge	\$19.20	\$19.20		\$19.20	\$0.00
R-4 On Peak Energy	\$0.06109	\$0.06511		\$0.06511	\$0.00402
R-4 Off Peak Energy	\$0.00333	\$0.00194	(\$0.00077)	(\$0.00002)	(\$0.00335)

Streetlight Rate Classes: various various, please refer to Exhibit PTZ-114

Standard Offer Rate:

- (a) Approved by DTE in Docket 99-111
- (b) Column (a)
- (c) Exhibit PTZ-9
- (d) Column (b) + Column (c)
- (e) Column (d) - Column (a)

Distribution Rates:

- (a) Approved by DTE in Docket 99-47
- (b) Exhibit PTZ-10
- (c) Approved by DTE in Docket 99-47 but not included in Column (b) for redesign;
already reflected in Column (a) and Column (b) for streetlights
- (d) Exhibit PTZ-10, off peak credit required to get customers to 14% savings
- (e) Column (b) + Column (c) + Column (d)
- (f) Column (e) - Column (a)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-8

Proposed Inflation Adjustment Calculation

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment		Total Company		Total Company	
		CPI	Percentage	Benchmark	Fuel	Benchmark	
		<u>Index</u>	<u>Change</u>	<u>Rate</u>	<u>Adjustment</u>	<u>Rate</u>	
		(a)	(b)	(c)	(d)	(e)	
<u>Actual as of:</u>	<u>Inflation for:</u>						
31-Jul-1997		160.5 1/		\$0.09815 2/		\$0.09815	
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.09833	n/a	\$0.09833	
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.09857	n/a	\$0.09857	
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.09881	n/a	\$0.09881	
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.09875	n/a	\$0.09875	
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.09863	n/a	\$0.09863	
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.09881	n/a	\$0.09881	
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.09899	n/a	\$0.09899	
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.09917	n/a	\$0.09917	
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.09935	n/a	\$0.09935	
31-May-1998	May-1998	162.8 1/	0.185%	\$0.09953	n/a	\$0.09953	
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.09965	n/a	\$0.09965	
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.09977	n/a	\$0.09977	
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.09989	n/a	\$0.09989	
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.10001	n/a	\$0.10001	
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.10025	n/a	\$0.10025	
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.10025	n/a	\$0.10025	
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.10019	n/a	\$0.10019	
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.10043	n/a	\$0.10043	
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.10055	n/a	\$0.10055	
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.10086	n/a	\$0.10086	
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.10159	n/a	\$0.10159	
31-May-1999	May-1999	166.2 1/	0.000%	\$0.10159	n/a	\$0.10159	
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.10159	n/a	\$0.10159	
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.10190	n/a	\$0.10190	
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.10214	n/a	\$0.10214	
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.10263	n/a	\$0.10263	
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.10281	n/a	\$0.10281	
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.10287	n/a	\$0.10287	
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.10287	n/a	\$0.10287	
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.10311	n/a	\$0.10311	
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.10372	n/a	\$0.10372	
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.10458	n/a	\$0.10458	
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.10464	n/a	\$0.10464	
31-May-2000	May-2000	171.3 1/	0.058%	\$0.10470	n/a	\$0.10470	
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.10531	\$0.01194 3/	\$0.11725 4/	

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Exhibit PTZ-13, Total Company August 1997 revenue of \$1,611,720,235 ÷ total 96-25 kWh sales of 16,421,133,698

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-9

Projected Weighted Average Fuel Index Payments
October 2000 -- December 2000

Massachusetts Electric Company
Nantucket Electric Company

Weighted Average Fuel Index Payments
October 2000 - December 2000

Section 1: Percentage of kWhs Attributable to Standard Offer

(1)	July Standard Offer kWhs	1,355,202,056
(2)	July Total kWhs	1,787,738,680
(3)	Percentage of Standard Offer kWhs to Total kWhs	75.81%

Section 2: Projected Standard Offer kWhs, October 2000 - December 2000

		<u>October</u>	<u>November</u>	<u>December</u>	<u>Total</u>
(4)	Projected Total Company kWhs				
	Eastern Edison	218,991,488	217,513,098	242,990,964	679,495,550
	Nantucket Electric	8,620,000	7,600,000	9,370,000	25,590,000
	Mass. Electric	<u>1,355,699,000</u>	<u>1,369,724,000</u>	<u>1,549,757,000</u>	<u>4,275,180,000</u>
	Total Mass. Electric	1,583,310,488	1,594,837,098	1,802,117,964	4,980,265,550
(5)	Percentage of Standard Offer kWhs to Total kWhs	<u>75.81%</u>	<u>75.81%</u>	<u>75.81%</u>	<u>75.81%</u>
(6)	Projected Standard Offer kWhs	1,200,234,493	1,208,972,283	1,366,102,327	3,775,309,103

Section 3: Weighted Average Fuel Index Payments for October 2000 - December 2000

(7)	Projected Standard Offer kWhs	1,200,234,493	1,208,972,283	1,366,102,327	3,775,309,103
(8)	Weighted Average Projected Fuel Index Payment per kWh	<u>\$0.01019</u>	<u>\$0.01178</u>	<u>\$0.01362</u>	
(9)	Projected Fuel Index Payments	\$12,230,389	\$14,241,694	\$18,606,314	<u>\$45,078,397</u>
(10)	Weighted Average Fuel Index Payment for October 2000 - December 2000				\$0.01194

- (1) Per Company billing records
- (2) Per Company billing records
- (3) Line (1) ÷ Line (2)
- (4) Per Company forecast
- (5) Line (3)
- (6) Line (4) x Line (5)
- (7) Line (6)
- (8) Exhibit MJH-5
- (9) Line (7) x Line (8)
- (10) Line (9) total ÷ Line (8) total

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-10

Rate R-4 Revenue Neutral Distribution Rate Redesign

Range: RATE-R4
 Date: 01-Sep-2000
 Time: 08:45 AM

Massachusetts Electric Company
 Nantucket Electric Company
 M.D.T.E. Docket No.
 Exhibit PTZ-10
 Page 1 of 1

Massachusetts Electric Company
 Approved Settlement Rates, Adjusted for Mass. Legislation
 Rate Design for Rate R-4

R-4	Units (1)	Present Rates (2)	Present Revenues (3)	Proposed Rates (4)	Proposed Revenues (5)	Comments
Section 1: Rate Design						
1 Customer Charge:	19,472	\$19.20	\$373,862	\$19.20	\$373,862	
2 Energy Charge:						
On Peak	26,839,617					
Off Peak	<u>50,003,625</u>					
Total kWh	76,843,242					
Distribution Charge-On Peak		\$0.06109	\$1,639,632	\$0.06511	\$1,747,527	
Distribution Charge-Off Peak		\$0.00410	\$205,015	\$0.00194	\$97,007	
3 Total Design Revenue:			\$2,218,509		\$2,218,396	= Lines 1 + 4
Section 2: Summary						
1 Total Units -	Number of Bills:	19,472				Section 1
	On-Peak kWh:	26,839,617				Section 1
	Off-Peak kWh:	<u>50,003,625</u>				Section 1
	Total kWh:	76,843,242				Section 1
2 Total Design Revenue:			\$2,218,509		\$2,218,396	Section 1
3 Revenue Requirement:					\$2,218,595	Distribution Revenue Requirement
4 Difference:					\$199	Distribution Difference
5 Percentage:					0.0090%	= Lines 4 / 3

Source:

Column (1):	Docket 96-25, February 24, 1998 Filing to Implement Massachusetts Electric Utility Restructuring Act, Exhibit PTZ-5, Page 4
Column (2):	Base distribution rates per currently effective tariff
Column (3):	Column (1) * Column (2)
Column (4):	Redesign based on revenue requirement in Docket 96-25 of \$2,218,595 per Exhibit PTZ-5, reducing off peak charge approved in Docket 99-47 by \$0.00216 per kWh and increasing customer charge approved in Docket 99-47 by \$.05, collecting remainder in on peak charge, levels that ensure the statutory rate reductions
Column (5):	Column (1) * Column (4)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-11

Rate R-4 Inflation Adjustment

Massachusetts Electric Company
Nantucket Electric Company
Rate R-4 Inflation Multiplier

<u>Actual as of:</u>	<u>Inflation for:</u>	<u>CPI Index (a)</u>	<u>Percentage Change (b)</u>	<u>R-4 Benchmark (c)</u>	<u>Fuel Adjustment (d)</u>	<u>Total R-4 Benchmark (e)</u>	<u>Overall Multiplier (f)</u>
			prior (a) vs current (a)	prior (c) x (b)		(c) + (d)	prior (f) x 1+[prior (e) vs (e)]
31-Jul-1997		160.5 1/		10.044 2/		10.044	1.00000
31-Aug-1997	Aug-1997	160.8 1/	0.187%	10.063	n/a	10.063	1.00186
30-Sep-1997	Sep-1997	161.2 1/	0.249%	10.088	n/a	10.088	1.00435
31-Oct-1997	Oct-1997	161.6 1/	0.248%	10.113	n/a	10.113	1.00684
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	10.107	n/a	10.107	1.00624
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	10.094	n/a	10.094	1.00495
31-Jan-1998	Jan-1998	161.6 1/	0.186%	10.113	n/a	10.113	1.00684
28-Feb-1998	Feb-1998	161.9 1/	0.186%	10.132	n/a	10.132	1.00873
31-Mar-1998	Mar-1998	162.2 1/	0.185%	10.151	n/a	10.151	1.01062
30-Apr-1998	Apr-1998	162.5 1/	0.185%	10.170	n/a	10.170	1.01251
31-May-1998	May-1998	162.8 1/	0.185%	10.189	n/a	10.189	1.01440
30-Jun-1998	Jun-1998	163.0 1/	0.123%	10.202	n/a	10.202	1.01570
31-Jul-1998	Jul-1998	163.2 1/	0.123%	10.215	n/a	10.215	1.01699
31-Aug-1998	Aug-1998	163.4 1/	0.123%	10.228	n/a	10.228	1.01829
30-Sep-1998	Sep-1998	163.6 1/	0.122%	10.241	n/a	10.241	1.01958
31-Oct-1998	Oct-1998	164.0 1/	0.244%	10.266	n/a	10.266	1.02207
30-Nov-1998	Nov-1998	164.0 1/	0.000%	10.266	n/a	10.266	1.02207
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	10.260	n/a	10.260	1.02147
31-Jan-1999	Jan-1999	164.3 1/	0.244%	10.285	n/a	10.285	1.02396
28-Feb-1999	Feb-1999	164.5 1/	0.122%	10.298	n/a	10.298	1.02526
31-Mar-1999	Mar-1999	165.0 1/	0.304%	10.329	n/a	10.329	1.02834
30-Apr-1999	Apr-1999	166.2 1/	0.727%	10.404	n/a	10.404	1.03581
31-May-1999	May-1999	166.2 1/	0.000%	10.404	n/a	10.404	1.03581
30-Jun-1999	Jun-1999	166.2 1/	0.000%	10.404	n/a	10.404	1.03581
31-Jul-1999	Jul-1999	166.7 1/	0.301%	10.435	n/a	10.435	1.03890
31-Aug-1999	Aug-1999	167.1 1/	0.240%	10.460	n/a	10.460	1.04138
30-Sep-1999	Sep-1999	167.9 1/	0.479%	10.510	n/a	10.510	1.04636
31-Oct-1999	Oct-1999	168.2 1/	0.179%	10.529	n/a	10.529	1.04825
30-Nov-1999	Nov-1999	168.3 1/	0.059%	10.535	n/a	10.535	1.04885
31-Dec-1999	Dec-1999	168.3 1/	0.000%	10.535	n/a	10.535	1.04885
31-Jan-2000	Jan-2000	168.7 1/	0.238%	10.560	n/a	10.560	1.05134
29-Feb-2000	Feb-2000	169.7 1/	0.593%	10.623	n/a	10.623	1.05761
31-Mar-2000	Mar-2000	171.1 1/	0.825%	10.711	n/a	10.711	1.06637
30-Apr-2000	Apr-2000	171.2 1/	0.058%	10.717	n/a	10.717	1.06697
31-May-2000	May-2000	171.3 1/	0.058%	10.723	n/a	10.723	1.06757
30-Jun-2000	Jun-2000	172.3 1/	0.584%	10.786	1.194 3/	11.980 4/	1.19271

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Exhibit PTZ-13, page 1

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

1

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-12

Rate R-4 Savings from August 1997 Rates Adjusted for Inflation

Massachusetts Electric Company
R-4 Savings from August 1997 Adjusted for Inflation

Count (a)	Total Peak kWh (b)	Total Off Peak kWh (c)	Total kWh (d)	Peak % (e)	No. of Months (f)	August 1997	August 1997	Annual R-4 Bill With Temp Cr & (\$0.00119)	\$ Savings from August 1997 (j)	% Savings from August 1997 (k)
						Annual R-4 Bill (g)	Annual R-4 Bill Adj for Inflation (h)	Std Offer (i)		
1	0	0	0	0	1	\$21.27	\$25.37	\$19.20	\$6.17	24.3%
2	1,466	20,311	21,777	6.73%	12	\$1,661.52	\$1,981.72	\$1,696.02	\$285.70	14.4%
3	885	10,644	11,529	7.68%	11	\$990.24	\$1,181.07	\$997.92	\$183.15	15.5%
4	1,064	12,695	13,759	7.73%	12	\$1,158.64	\$1,381.93	\$1,170.05	\$211.88	15.3%
5	2,078	23,146	25,224	8.24%	12	\$1,925.18	\$2,296.19	\$1,965.69	\$330.50	14.4%
6	1,862	19,589	21,451	8.68%	12	\$1,685.64	\$2,010.49	\$1,715.51	\$294.98	14.7%
7	2,912	29,668	32,580	8.94%	12	\$2,436.84	\$2,906.45	\$2,494.35	\$412.10	14.2%
8	2,731	27,217	29,948	9.12%	12	\$2,266.46	\$2,703.24	\$2,316.83	\$386.41	14.3%
9	3,555	35,688	39,243	9.06%	12	\$2,888.13	\$3,444.71	\$2,962.05	\$482.66	14.0%
10	1,717	16,013	17,730	9.68%	12	\$1,456.75	\$1,737.49	\$1,475.54	\$261.95	15.1%
11	2,927	28,006	30,933	9.46%	12	\$2,344.08	\$2,795.82	\$2,395.96	\$399.86	14.3%
12	3,096	29,491	32,587	9.50%	12	\$2,457.12	\$2,930.64	\$2,512.98	\$417.66	14.3%
13	1,458	12,642	14,100	10.34%	12	\$1,220.77	\$1,456.03	\$1,229.79	\$226.24	15.5%
14	1,094	7,995	9,089	12.04%	12	\$894.29	\$1,066.63	\$889.89	\$176.74	16.6%
15	2,819	23,192	26,011	10.84%	12	\$2,050.38	\$2,445.52	\$2,086.83	\$358.69	14.7%
16	2,283	18,099	20,382	11.20%	12	\$1,669.90	\$1,991.71	\$1,692.44	\$299.27	15.0%
17	2,478	18,335	20,813	11.91%	12	\$1,715.67	\$2,046.30	\$1,737.89	\$308.41	15.1%
18	5,050	39,262	44,312	11.40%	12	\$3,340.17	\$3,983.87	\$3,417.54	\$566.33	14.2%
19	1,660	11,467	13,127	12.65%	12	\$1,186.85	\$1,415.57	\$1,190.81	\$224.76	15.9%
20	4,350	33,164	37,514	11.60%	12	\$2,874.98	\$3,429.03	\$2,935.99	\$493.04	14.4%
21	3,951	29,357	33,308	11.86%	12	\$2,590.85	\$3,090.14	\$2,641.46	\$448.68	14.5%
22	2,778	20,007	22,785	12.19%	12	\$1,861.10	\$2,219.76	\$1,887.19	\$332.57	15.0%
23	4,370	32,236	36,606	11.94%	12	\$2,825.12	\$3,369.56	\$2,882.93	\$486.63	14.4%
24	3,842	28,029	31,871	12.05%	12	\$2,496.74	\$2,977.90	\$2,543.52	\$434.38	14.6%
25	3,865	28,199	32,064	12.05%	12	\$2,510.28	\$2,994.05	\$2,557.50	\$436.55	14.6%
26	4,347	31,933	36,280	11.98%	12	\$2,803.95	\$3,344.31	\$2,860.88	\$483.43	14.5%
27	3,287	23,590	26,877	12.23%	12	\$2,150.58	\$2,565.03	\$2,185.73	\$379.30	14.8%
28	3,414	23,803	27,217	12.54%	12	\$2,183.79	\$2,604.64	\$2,218.94	\$385.70	14.8%
29	3,207	22,099	25,306	12.67%	11	\$2,030.65	\$2,421.98	\$2,063.35	\$358.63	14.8%
30	3,797	26,211	30,008	12.65%	12	\$2,385.11	\$2,844.75	\$2,426.10	\$418.65	14.7%
31	4,334	30,214	34,548	12.54%	12	\$2,703.31	\$3,224.28	\$2,754.60	\$469.68	14.6%
32	1,159	6,352	7,511	15.43%	12	\$810.89	\$967.16	\$800.67	\$166.49	17.2%
33	7,025	49,623	56,648	12.40%	12	\$4,260.50	\$5,081.56	\$4,361.22	\$720.34	14.2%
34	3,975	27,091	31,066	12.80%	12	\$2,464.98	\$2,940.02	\$2,507.89	\$432.13	14.7%
35	3,390	22,406	25,796	13.14%	12	\$2,099.77	\$2,504.42	\$2,130.41	\$374.01	14.9%
36	11,120	78,080	89,200	12.47%	12	\$6,568.35	\$7,834.16	\$6,740.70	\$1,093.46	14.0%
37	3,788	25,024	28,812	13.15%	12	\$2,315.61	\$2,761.86	\$2,352.71	\$409.15	14.8%
38	5,320	35,960	41,280	12.89%	12	\$3,195.63	\$3,811.47	\$3,260.47	\$551.00	14.5%
39	1,256	6,456	7,712	16.29%	12	\$832.90	\$993.41	\$822.46	\$170.95	17.2%
40	3,959	24,964	28,923	13.69%	12	\$2,340.46	\$2,791.50	\$2,376.38	\$415.12	14.9%
41	2,111	11,985	14,096	14.98%	12	\$1,291.13	\$1,539.95	\$1,294.26	\$245.69	16.0%
42	5,192	32,822	38,014	13.66%	12	\$2,994.64	\$3,571.75	\$3,049.78	\$521.97	14.6%
43	1,619	9,698	11,317	14.31%	6	\$951.08	\$1,134.37	\$961.81	\$172.56	15.2%
44	4,720	27,813	32,533	14.51%	12	\$2,629.57	\$3,136.32	\$2,670.68	\$465.64	14.8%
45	3,218	17,755	20,973	15.34%	12	\$1,804.83	\$2,152.65	\$1,820.92	\$331.73	15.4%
46	13,440	81,840	95,280	14.11%	12	\$7,167.52	\$8,548.80	\$7,339.27	\$1,209.53	14.1%
47	2,549	13,506	16,055	15.88%	12	\$1,450.71	\$1,730.28	\$1,456.45	\$273.83	15.8%
48	2,203	11,228	13,431	16.40%	12	\$1,262.96	\$1,506.35	\$1,263.06	\$243.29	16.2%
49	5,801	33,140	38,941	14.90%	12	\$3,113.58	\$3,713.61	\$3,166.33	\$547.28	14.7%
50	6,263	35,987	42,250	14.82%	12	\$3,353.13	\$3,999.32	\$3,412.75	\$586.57	14.7%

Massachusetts Electric Company
R-4 Savings from August 1997 Adjusted for Inflation

Count (a)	Total Peak kWh (b)	Total Off Peak kWh (c)	Total kWh (d)	Peak % (e)	No. of Months (f)	August 1997	August 1997	Annual	\$ Savings from August 1997 (j)	% Savings from August 1997 (k)
						Annual R-4 Bill (g)	Annual R-4 Bill Adj for Inflation (h)	R-4 Bill With \$0.04994 Std Offer (i)		
51	2,911	15,257	18,168	16.02%	12	\$1,610.92	\$1,921.37	\$1,620.44	\$300.93	15.7%
52	2,844	14,727	17,571	16.19%	12	\$1,569.47	\$1,871.93	\$1,577.61	\$294.32	15.7%
53	5,225	28,915	34,140	15.30%	12	\$2,776.23	\$3,311.25	\$2,818.17	\$493.08	14.9%
54	8,200	45,800	54,000	15.19%	12	\$4,235.77	\$5,052.06	\$4,317.13	\$734.93	14.5%
55	2,463	11,954	14,417	17.08%	12	\$1,347.56	\$1,607.25	\$1,348.62	\$258.63	16.1%
56	6,846	37,793	44,639	15.34%	12	\$3,553.05	\$4,237.77	\$3,615.37	\$622.40	14.7%
57	3,267	16,892	20,159	16.21%	11	\$1,742.21	\$2,077.96	\$1,757.22	\$320.74	15.4%
58	3,904	20,340	24,244	16.10%	12	\$2,066.41	\$2,464.64	\$2,087.25	\$377.39	15.3%
59	3,886	20,052	23,938	16.23%	12	\$2,046.93	\$2,441.40	\$2,066.89	\$374.51	15.3%
60	6,146	33,055	39,201	15.68%	12	\$3,165.77	\$3,775.86	\$3,216.28	\$559.58	14.8%
61	16,200	91,200	107,400	15.08%	12	\$8,160.32	\$9,732.93	\$8,347.64	\$1,385.29	14.2%
62	3,677	18,680	22,357	16.45%	12	\$1,933.74	\$2,306.40	\$1,950.34	\$356.06	15.4%
63	4,466	23,233	27,699	16.12%	12	\$2,325.12	\$2,773.20	\$2,352.41	\$420.79	15.2%
64	5,396	28,583	33,979	15.88%	12	\$2,785.50	\$3,322.30	\$2,825.34	\$496.96	15.0%
65	4,416	22,657	27,073	16.31%	12	\$2,283.85	\$2,723.98	\$2,309.52	\$414.46	15.2%
66	3,092	15,077	18,169	17.02%	12	\$1,630.53	\$1,944.76	\$1,638.44	\$306.32	15.8%
67	4,384	22,413	26,797	16.36%	12	\$2,264.58	\$2,701.00	\$2,289.60	\$411.40	15.2%
68	8,403	45,041	53,444	15.72%	12	\$4,225.86	\$5,040.24	\$4,303.54	\$736.70	14.6%
69	4,466	22,895	27,361	16.32%	11	\$2,284.48	\$2,724.73	\$2,312.72	\$412.01	15.1%
70	4,583	23,519	28,102	16.31%	11	\$2,339.59	\$2,790.46	\$2,369.25	\$421.21	15.1%
71	2,713	12,704	15,417	17.60%	12	\$1,431.88	\$1,707.82	\$1,434.02	\$273.80	16.0%
72	6,544	33,252	39,796	16.44%	12	\$3,242.89	\$3,867.84	\$3,291.82	\$576.02	14.9%
73	3,558	16,743	20,301	17.53%	12	\$1,803.07	\$2,150.55	\$1,813.88	\$336.67	15.7%
74	5,844	28,343	34,187	17.09%	12	\$2,845.83	\$3,394.26	\$2,882.35	\$511.91	15.1%
75	2,173	8,727	10,900	19.94%	12	\$1,114.69	\$1,329.51	\$1,106.66	\$222.85	16.8%
76	7,132	34,505	41,637	17.13%	12	\$3,411.94	\$4,069.47	\$3,461.72	\$607.75	14.9%
77	15,920	80,080	96,000	16.58%	12	\$7,476.83	\$8,917.72	\$7,628.71	\$1,289.01	14.5%
78	7,562	36,502	44,064	17.16%	12	\$3,597.48	\$4,290.76	\$3,651.48	\$639.28	14.9%
79	6,400	30,800	37,200	17.20%	10	\$3,036.03	\$3,621.12	\$3,081.75	\$539.37	14.9%
80	5,963	27,461	33,424	17.84%	12	\$2,814.97	\$3,357.45	\$2,847.88	\$509.57	15.2%
81	2,163	8,174	10,337	20.92%	12	\$1,081.35	\$1,289.74	\$1,071.51	\$218.23	16.9%
82	24,000	117,720	141,720	16.93%	12	\$10,969.95	\$13,084.01	\$11,201.52	\$1,882.49	14.4%
83	20,640	100,160	120,800	17.09%	12	\$9,408.06	\$11,221.12	\$9,600.13	\$1,620.99	14.4%
84	9,280	43,320	52,600	17.64%	12	\$4,272.29	\$5,095.62	\$4,339.28	\$756.34	14.8%
85	4,743	20,709	25,452	18.64%	12	\$2,226.31	\$2,655.35	\$2,243.64	\$411.71	15.5%
86	6,691	30,110	36,801	18.18%	11	\$3,065.90	\$3,656.74	\$3,105.59	\$551.15	15.1%
87	17,280	80,400	97,680	17.69%	12	\$7,720.09	\$9,207.86	\$7,865.37	\$1,342.49	14.6%
88	5,512	23,707	29,219	18.86%	12	\$2,525.28	\$3,011.94	\$2,548.24	\$463.70	15.4%
89	5,774	24,332	30,106	19.18%	12	\$2,604.42	\$3,106.33	\$2,627.97	\$478.36	15.4%
90	6,457	27,434	33,891	19.05%	12	\$2,895.13	\$3,453.06	\$2,925.17	\$527.89	15.3%
91	7,023	29,618	36,641	19.17%	12	\$3,113.89	\$3,713.98	\$3,148.00	\$565.98	15.2%
92	5,859	24,206	30,065	19.49%	12	\$2,611.27	\$3,114.50	\$2,633.94	\$480.56	15.4%
93	4,344	17,211	21,555	20.15%	12	\$1,959.88	\$2,337.58	\$1,967.81	\$369.77	15.8%
94	8,005	33,707	41,712	19.19%	12	\$3,510.60	\$4,187.14	\$3,552.78	\$634.36	15.2%
95	9,259	39,229	48,488	19.10%	12	\$4,034.40	\$4,811.89	\$4,087.89	\$724.00	15.0%
96	10,232	42,997	53,229	19.22%	12	\$4,411.24	\$5,261.35	\$4,471.78	\$789.57	15.0%
97	7,285	29,779	37,064	19.66%	12	\$3,166.44	\$3,776.66	\$3,199.60	\$577.06	15.3%
98	63,120	274,480	337,600	18.70%	12	\$26,422.35	\$31,514.30	\$26,954.90	\$4,559.40	14.5%
99	5,113	19,411	24,524	20.85%	12	\$2,213.13	\$2,639.63	\$2,224.05	\$415.58	15.7%
100	32,400	138,560	170,960	18.95%	11	\$13,532.10	\$16,139.92	\$13,787.67	\$2,352.25	14.6%

Massachusetts Electric Company
R-4 Savings from August 1997 Adjusted for Inflation

<u>Count</u>	<u>Total Peak kWh</u>	<u>Total Off Peak kWh</u>	<u>Total kWh</u>	<u>Peak %</u>	<u>No. of Months</u>	<u>August 1997 Annual R-4 Bill</u>	<u>August 1997 Annual R-4 Bill Adj for Inflation</u>	<u>Annual R-4 Bill With \$0.04994 Std Offer</u>	<u>\$ Savings from August 1997</u>	<u>% Savings from August 1997</u>
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
101	16,960	70,640	87,600	19.36%	12	\$7,107.93	\$8,477.73	\$7,222.48	\$1,255.25	14.8%
102	5,144	19,426	24,570	20.94%	12	\$2,219.12	\$2,646.78	\$2,229.90	\$416.88	15.8%
103	6,066	23,169	29,235	20.75%	12	\$2,586.08	\$3,084.45	\$2,604.12	\$480.33	15.6%
104	3,040	10,160	13,200	23.03%	12	\$1,340.18	\$1,598.45	\$1,332.01	\$266.44	16.7%
105	9,571	38,223	47,794	20.03%	12	\$4,028.37	\$4,804.69	\$4,076.73	\$727.96	15.2%
106	19,520	80,560	100,080	19.50%	12	\$8,099.74	\$9,660.67	\$8,232.88	\$1,427.79	14.8%
107	23,200	93,760	116,960	19.84%	12	\$9,464.73	\$11,288.72	\$9,621.04	\$1,667.68	14.8%
108	6,933	26,026	32,959	21.04%	11	\$2,871.91	\$3,425.37	\$2,896.63	\$528.74	15.4%
109	12,960	50,400	63,360	20.45%	12	\$5,286.62	\$6,305.43	\$5,356.39	\$949.04	15.1%
110	4,571	15,869	20,440	22.36%	12	\$1,920.53	\$2,290.64	\$1,922.70	\$367.94	16.1%
111	5,618	20,092	25,710	21.85%	12	\$2,335.68	\$2,785.80	\$2,346.00	\$439.80	15.8%
112	7,800	29,000	36,800	21.20%	12	\$3,206.99	\$3,825.02	\$3,234.64	\$590.38	15.4%
113	49,120	196,000	245,120	20.04%	11	\$19,588.72	\$23,363.74	\$19,941.10	\$3,422.64	14.6%
114	19,520	74,960	94,480	20.66%	12	\$7,778.86	\$9,277.95	\$7,893.35	\$1,384.60	14.9%
115	7,730	27,841	35,571	21.73%	12	\$3,128.99	\$3,731.99	\$3,153.20	\$578.79	15.5%
116	21,360	81,720	103,080	20.72%	12	\$8,470.52	\$10,102.91	\$8,597.13	\$1,505.78	14.9%
117	5,331	18,055	23,386	22.80%	12	\$2,171.48	\$2,589.95	\$2,176.64	\$413.31	16.0%
118	77,280	295,560	372,840	20.73%	12	\$29,972.17	\$35,748.22	\$30,494.91	\$5,253.31	14.7%
119	4,268	13,244	17,512	24.37%	12	\$1,720.01	\$2,051.48	\$1,715.16	\$336.32	16.4%
120	10,005	34,818	44,823	22.32%	12	\$3,905.04	\$4,657.60	\$3,939.62	\$717.98	15.4%
121	9,014	30,963	39,977	22.55%	12	\$3,520.25	\$4,198.65	\$3,547.58	\$651.07	15.5%
122	5,797	18,842	24,639	23.53%	12	\$2,293.65	\$2,735.67	\$2,298.80	\$436.87	16.0%
123	8,212	27,906	36,118	22.74%	12	\$3,212.44	\$3,831.52	\$3,234.12	\$597.40	15.6%
124	6,906	22,890	29,796	23.18%	12	\$2,709.01	\$3,231.07	\$2,721.39	\$509.68	15.8%
125	8,205	27,638	35,843	22.89%	12	\$3,195.92	\$3,811.82	\$3,216.75	\$595.07	15.6%
126	9,926	33,898	43,824	22.65%	12	\$3,839.26	\$4,579.14	\$3,871.22	\$707.92	15.5%
127	16,240	57,280	73,520	22.09%	12	\$6,223.32	\$7,422.64	\$6,297.47	\$1,125.17	15.2%
128	9,818	32,833	42,651	23.02%	12	\$3,760.37	\$4,485.05	\$3,789.39	\$695.66	15.5%
129	25,040	88,240	113,280	22.10%	12	\$9,452.76	\$11,274.44	\$9,580.28	\$1,694.16	15.0%
130	32,760	115,920	148,680	22.03%	12	\$12,315.63	\$14,689.02	\$12,491.71	\$2,197.31	15.0%
131	5,288	16,365	21,653	24.42%	11	\$2,046.26	\$2,440.60	\$2,048.12	\$392.48	16.1%
132	5,844	17,927	23,771	24.58%	12	\$2,248.99	\$2,682.40	\$2,250.83	\$431.57	16.1%
133	30,080	104,240	134,320	22.39%	12	\$11,203.13	\$13,362.13	\$11,355.45	\$2,006.68	15.0%
134	5,646	16,978	22,624	24.96%	12	\$2,161.87	\$2,578.49	\$2,161.67	\$416.82	16.2%
135	5,800	17,320	23,120	25.09%	12	\$2,206.94	\$2,632.25	\$2,207.00	\$425.25	16.2%
136	4,756	13,472	18,228	26.09%	12	\$1,813.78	\$2,163.32	\$1,806.94	\$356.38	16.5%
137	6,554	19,726	26,280	24.94%	12	\$2,469.51	\$2,945.42	\$2,473.32	\$472.10	16.0%
138	8,303	25,771	34,074	24.37%	12	\$3,105.15	\$3,703.56	\$3,119.22	\$584.34	15.8%
139	10,013	31,511	41,524	24.11%	12	\$3,716.87	\$4,433.16	\$3,740.41	\$692.75	15.6%
140	15,840	50,560	66,400	23.86%	12	\$5,772.11	\$6,884.48	\$5,826.14	\$1,058.34	15.4%
141	26,515	86,305	112,820	23.50%	12	\$9,585.83	\$11,433.15	\$9,698.59	\$1,734.56	15.2%
142	16,040	50,920	66,960	23.95%	12	\$5,825.81	\$6,948.52	\$5,879.91	\$1,068.61	15.4%
143	11,080	34,200	45,280	24.47%	12	\$4,047.43	\$4,827.43	\$4,073.86	\$753.57	15.6%
144	7,108	20,495	27,603	25.75%	12	\$2,605.20	\$3,107.26	\$2,608.43	\$498.83	16.1%
145	23,880	75,600	99,480	24.00%	12	\$8,536.64	\$10,181.77	\$8,628.62	\$1,553.15	15.3%
146	5,538	15,111	20,649	26.82%	12	\$2,037.03	\$2,429.59	\$2,031.23	\$398.36	16.4%
147	5,945	16,196	22,141	26.85%	12	\$2,166.52	\$2,584.04	\$2,162.01	\$422.03	16.3%
148	10,720	31,760	42,480	25.24%	11	\$3,826.80	\$4,564.28	\$3,849.22	\$715.06	15.7%
149	186,600	598,500	785,100	23.77%	12	\$65,411.07	\$78,016.69	\$66,324.95	\$11,691.74	15.0%
150	72,960	232,080	305,040	23.92%	12	\$25,620.28	\$30,557.66	\$25,956.04	\$4,601.62	15.1%

Massachusetts Electric Company
R-4 Savings from August 1997 Adjusted for Inflation

<u>Count</u>	<u>Total Peak</u>	<u>Total Off Peak</u>	<u>Total</u>	<u>Peak</u>	<u>No. of</u>	<u>August 1997</u>	<u>August 1997</u>	<u>Annual</u>	<u>\$</u>	<u>%</u>
<u>(a)</u>	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>	<u>%</u>	<u>Months</u>	<u>R-4</u>	<u>R-4 Bill Adj</u>	<u>R-4</u>	<u>Savings from</u>	<u>Savings from</u>
	<u>(b)</u>	<u>(c)</u>	<u>(d)</u>	<u>(e)</u>	<u>(f)</u>	<u>Bill</u>	<u>for Inflation</u>	<u>Bill With</u>	<u>August 1997</u>	<u>August 1997</u>
						<u>(g)</u>	<u>(h)</u>	<u>\$0.04994</u>	<u>(j)</u>	<u>(k)</u>
								<u>Std Offer</u>		
								<u>(i)</u>		
151	8,822	25,100	33,922	26.01%	12	\$3,152.53	\$3,760.07	\$3,161.43	\$598.64	15.9%
152	9,233	26,327	35,560	25.96%	12	\$3,290.83	\$3,925.02	\$3,301.49	\$623.53	15.9%
153	6,672	18,228	24,900	26.80%	11	\$2,381.91	\$2,840.94	\$2,382.17	\$458.77	16.1%
154	9,324	26,142	35,466	26.29%	12	\$3,295.27	\$3,930.31	\$3,304.80	\$625.51	15.9%
155	3,755	9,398	13,153	28.55%	9	\$1,350.97	\$1,611.32	\$1,342.44	\$268.88	16.7%
156	6,938	18,820	25,758	26.94%	11	\$2,459.83	\$2,933.87	\$2,460.54	\$473.33	16.1%
157	7,508	20,115	27,623	27.18%	12	\$2,649.58	\$3,160.19	\$2,649.30	\$510.89	16.2%
158	6,742	17,618	24,360	27.68%	12	\$2,379.81	\$2,838.43	\$2,375.55	\$462.88	16.3%
159	6,752	17,581	24,333	27.75%	12	\$2,379.35	\$2,837.88	\$2,374.91	\$462.97	16.3%
160	7,210	18,957	26,167	27.55%	12	\$2,533.94	\$3,022.27	\$2,531.49	\$490.78	16.2%
161	9,040	24,200	33,240	27.20%	12	\$3,137.02	\$3,741.57	\$3,141.69	\$599.88	16.0%
162	9,425	25,189	34,614	27.23%	12	\$3,257.37	\$3,885.11	\$3,263.16	\$621.95	16.0%
163	9,199	24,393	33,592	27.38%	12	\$3,174.39	\$3,786.14	\$3,178.80	\$607.34	16.0%
164	11,152	29,833	40,985	27.21%	12	\$3,809.10	\$4,543.17	\$3,820.60	\$722.57	15.9%
165	9,296	24,027	33,323	27.90%	12	\$3,169.46	\$3,780.26	\$3,172.10	\$608.16	16.1%
166	7,022	17,344	24,366	28.82%	12	\$2,410.42	\$2,874.94	\$2,403.65	\$471.29	16.4%
167	10,725	28,154	38,879	27.59%	12	\$3,642.27	\$4,344.19	\$3,650.59	\$693.60	16.0%
168	10,505	27,439	37,944	27.69%	12	\$3,564.91	\$4,251.92	\$3,572.10	\$679.82	16.0%
169	7,159	17,480	24,639	29.06%	12	\$2,440.87	\$2,911.26	\$2,433.79	\$477.47	16.4%
170	40,800	111,600	152,400	26.77%	12	\$13,397.84	\$15,979.79	\$13,514.10	\$2,465.69	15.4%
171	8,338	20,223	28,561	29.19%	12	\$2,793.05	\$3,331.31	\$2,788.45	\$542.86	16.3%
172	8,497	20,454	28,951	29.35%	12	\$2,832.58	\$3,378.46	\$2,827.82	\$550.64	16.3%
173	10,280	25,360	35,640	28.84%	12	\$3,408.57	\$4,065.45	\$3,410.11	\$655.34	16.1%
174	7,338	17,026	24,364	30.12%	12	\$2,444.47	\$2,915.55	\$2,434.88	\$480.67	16.5%
175	7,405	17,182	24,587	30.12%	12	\$2,464.48	\$2,939.42	\$2,455.01	\$484.41	16.5%
176	3,866	8,709	12,575	30.74%	7	\$1,287.32	\$1,535.40	\$1,279.98	\$255.42	16.6%
177	11,369	28,028	39,397	28.86%	11	\$3,720.29	\$4,437.24	\$3,726.63	\$710.61	16.0%
178	8,737	20,727	29,464	29.65%	11	\$2,866.65	\$3,419.09	\$2,863.52	\$555.57	16.2%
179	8,151	18,832	26,983	30.21%	12	\$2,682.41	\$3,199.35	\$2,674.22	\$525.13	16.4%
180	8,032	18,487	26,519	30.29%	12	\$2,642.95	\$3,152.28	\$2,634.30	\$517.98	16.4%
181	12,123	29,498	41,621	29.13%	12	\$3,950.51	\$4,711.83	\$3,955.38	\$756.45	16.1%
182	31,920	82,320	114,240	27.94%	12	\$10,251.42	\$12,227.01	\$10,320.36	\$1,906.65	15.6%
183	9,600	22,480	32,080	29.93%	12	\$3,131.08	\$3,734.48	\$3,126.87	\$607.61	16.3%
184	8,844	20,411	29,255	30.23%	12	\$2,887.50	\$3,443.96	\$2,880.66	\$563.30	16.4%
185	8,396	19,193	27,589	30.43%	12	\$2,743.62	\$3,272.35	\$2,735.24	\$537.11	16.4%
186	8,600	19,963	28,563	30.11%	11	\$2,800.20	\$3,339.84	\$2,795.32	\$544.52	16.3%
187	171,120	452,160	623,280	27.45%	12	\$54,465.54	\$64,961.81	\$54,979.56	\$9,982.25	15.4%
188	11,436	27,064	38,500	29.70%	12	\$3,697.41	\$4,409.95	\$3,698.09	\$711.86	16.1%
189	211,500	555,300	766,800	27.58%	12	\$67,053.92	\$79,976.14	\$67,683.25	\$12,292.89	15.4%
190	11,242	26,394	37,636	29.87%	12	\$3,626.92	\$4,325.88	\$3,626.48	\$699.40	16.2%
191	13,436	31,963	45,399	29.60%	12	\$4,308.90	\$5,139.28	\$4,314.59	\$824.69	16.0%
192	10,139	23,247	33,386	30.37%	12	\$3,264.18	\$3,893.23	\$3,259.47	\$633.76	16.3%
193	10,016	22,832	32,848	30.49%	12	\$3,220.06	\$3,840.61	\$3,214.66	\$625.95	16.3%
194	12,736	29,841	42,577	29.91%	12	\$4,071.53	\$4,856.17	\$4,074.12	\$782.05	16.1%
195	11,319	26,000	37,319	30.33%	12	\$3,617.09	\$4,314.15	\$3,614.88	\$699.27	16.2%
196	9,005	19,995	29,000	31.05%	12	\$2,890.29	\$3,447.29	\$2,881.16	\$566.13	16.4%
197	34,960	86,400	121,360	28.81%	12	\$10,988.00	\$13,105.54	\$11,053.35	\$2,052.19	15.7%
198	9,769	21,746	31,515	31.00%	12	\$3,116.98	\$3,717.67	\$3,109.36	\$608.31	16.4%
199	10,848	24,504	35,352	30.69%	12	\$3,453.47	\$4,119.00	\$3,448.94	\$670.06	16.3%
200	10,140	22,537	32,677	31.03%	12	\$3,223.67	\$3,844.92	\$3,216.59	\$628.33	16.3%

Massachusetts Electric Company
R-4 Savings from August 1997 Adjusted for Inflation

<u>Count</u> (a)	<u>Total Peak kWh</u> (b)	<u>Total Off Peak kWh</u> (c)	<u>Total kWh</u> (d)	<u>Peak %</u> (e)	<u>No. of Months</u> (f)	<u>August 1997</u>	<u>August 1997</u>	<u>Annual</u>	<u>\$</u> <u>Savings from</u> <u>August 1997</u> (j)	<u>%</u> <u>Savings from</u> <u>August 1997</u> (k)
						<u>Annual R-4 Bill</u> (g)	<u>R-4 Bill Adj for Inflation</u> (h)	<u>R-4 Bill With \$0.04994 Std Offer</u> (i)		
201	10,235	22,587	32,822	31.18%	12	\$3,242.24	\$3,867.06	\$3,234.79	\$632.27	16.4%
202	10,360	22,880	33,240	31.17%	12	\$3,279.70	\$3,911.74	\$3,272.52	\$639.22	16.3%
203	1,145	2,309	3,454	33.15%	2	\$364.21	\$434.40	\$361.29	\$73.11	16.8%
204	4,576	9,739	14,315	31.97%	6	\$1,442.49	\$1,720.48	\$1,436.65	\$283.83	16.5%
205	10,609	23,093	33,702	31.48%	12	\$3,333.09	\$3,975.42	\$3,325.23	\$650.19	16.4%
206	10,806	23,404	34,210	31.59%	12	\$3,383.49	\$4,035.54	\$3,375.54	\$660.00	16.4%
207	10,659	22,871	33,530	31.79%	12	\$3,328.64	\$3,970.12	\$3,319.74	\$650.38	16.4%
208	16,279	36,624	52,903	30.77%	12	\$5,046.19	\$6,018.66	\$5,051.32	\$967.34	16.1%
209	11,012	23,871	34,883	31.57%	11	\$3,423.05	\$4,082.72	\$3,417.56	\$665.16	16.3%
210	17,768	39,805	57,573	30.86%	12	\$5,474.71	\$6,529.76	\$5,482.04	\$1,047.72	16.0%
211	12,960	28,160	41,120	31.52%	11	\$3,990.99	\$4,760.11	\$3,988.76	\$771.35	16.2%
212	23,108	52,292	75,400	30.65%	12	\$7,073.40	\$8,436.54	\$7,092.14	\$1,344.40	15.9%
213	12,920	27,636	40,556	31.86%	12	\$3,975.62	\$4,741.78	\$3,969.81	\$771.97	16.3%
214	12,760	26,829	39,589	32.23%	12	\$3,902.92	\$4,655.07	\$3,895.32	\$759.75	16.3%
215	12,622	26,396	39,018	32.35%	12	\$3,855.28	\$4,598.25	\$3,847.02	\$751.23	16.3%
216	14,742	30,651	45,393	32.48%	12	\$4,449.71	\$5,307.23	\$4,443.67	\$863.56	16.3%
217	18,621	39,197	57,818	32.21%	12	\$5,580.96	\$6,656.49	\$5,581.42	\$1,075.07	16.2%
218	17,995	37,391	55,386	32.49%	12	\$5,373.94	\$6,409.57	\$5,371.94	\$1,037.63	16.2%
219	31,604	68,139	99,743	31.69%	12	\$9,386.58	\$11,195.50	\$9,410.10	\$1,785.40	15.9%
220	53,440	115,440	168,880	31.64%	12	\$15,708.39	\$18,735.62	\$15,766.04	\$2,969.58	15.8%
221	7,967	14,765	22,732	35.05%	9	\$2,355.13	\$2,809.00	\$2,340.67	\$468.33	16.7%
222	19,889	39,784	59,673	33.33%	12	\$5,824.30	\$6,946.72	\$5,819.57	\$1,127.15	16.2%
223	21,916	44,084	66,000	33.21%	12	\$6,405.94	\$7,640.45	\$6,404.07	\$1,236.38	16.2%
224	24,690	49,941	74,631	33.08%	12	\$7,200.34	\$8,587.95	\$7,202.30	\$1,385.65	16.1%
225	183,120	391,440	574,560	31.87%	12	\$52,970.96	\$63,179.20	\$53,215.00	\$9,964.20	15.8%
226	26,640	52,800	79,440	33.53%	12	\$7,686.67	\$9,168.00	\$7,687.14	\$1,480.86	16.2%
227	22,560	43,920	66,480	33.94%	12	\$6,503.06	\$7,756.29	\$6,497.00	\$1,259.29	16.2%
228	32,955	64,633	97,588	33.77%	12	\$9,409.14	\$11,222.41	\$9,413.34	\$1,809.07	16.1%
229	33,640	65,320	98,960	33.99%	12	\$9,561.80	\$11,404.49	\$9,564.41	\$1,840.08	16.1%
230	35,548	68,179	103,727	34.27%	12	\$10,041.19	\$11,976.27	\$10,042.53	\$1,933.74	16.1%
231	31,683	60,218	91,901	34.48%	12	\$8,945.78	\$10,669.76	\$8,942.47	\$1,727.29	16.2%
232	54,400	105,600	160,000	34.00%	12	\$15,303.34	\$18,252.51	\$15,322.78	\$2,929.73	16.1%
233	56,000	108,240	164,240	34.10%	12	\$15,719.23	\$18,748.54	\$15,738.43	\$3,010.11	16.1%
234	67,120	126,960	194,080	34.58%	11	\$18,609.75	\$22,196.11	\$18,630.54	\$3,565.57	16.1%
235	10,148	17,003	27,151	37.38%	9	\$2,844.08	\$3,392.17	\$2,824.73	\$567.44	16.7%
236	3,041	4,902	7,943	38.29%	3	\$847.65	\$1,011.00	\$840.56	\$170.44	16.9%
237	108,000	200,160	308,160	35.05%	12	\$29,586.52	\$35,288.25	\$29,618.02	\$5,670.23	16.1%
238	154,080	283,680	437,760	35.20%	12	\$41,993.40	\$50,086.11	\$42,042.66	\$8,043.45	16.1%
239	116,800	213,120	329,920	35.40%	12	\$31,784.57	\$37,909.90	\$31,809.49	\$6,100.41	16.1%
240	18,440	31,040	49,480	37.27%	9	\$5,019.81	\$5,987.20	\$5,000.36	\$986.84	16.5%
241	577,800	1,022,400	1,600,200	36.11%	12	\$154,401.10	\$184,156.34	\$154,516.29	\$29,640.05	16.1%
242	4,292	6,261	10,553	40.67%	4	\$1,153.70	\$1,376.03	\$1,142.02	\$234.01	17.0%
243	12,080	16,200	28,280	42.72%	1	\$2,947.45	\$3,515.46	\$2,931.06	\$584.40	16.6%

- (a) Data count
 (b) Number of on peak kWhs billed on R-4 for the period April 1999 through April 2000
 (c) Number of off peak kWhs billed on R-4 for the period April 1999 through April 2000
 (d) Number of total kWhs billed on R-4 for the period April 1999 through April 2000
 (e) Column (b) ÷ Column (d)
 (f) Number of months customer was on R-4 for the period April 1999 through April 2000
 (g) Columns (b), (c), (d) billed out at August 1997 rates
 (h) Column (g) x 1.19271 for inflation developed in Exhibit PTZ-11
 (i) Columns (b), (c), (d) billed out at distribution rates proposed in Exhibit PTZ-10 plus a Standard Offer rate resulting in at least 14% savings for customers on this rate
 (j) Column (h) - Column (i)
 (k) Column (j) ÷ Column (h)

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-13

Rate Class Savings for October 1, 2000 Proposed Rate Change

Massachusetts Electric Company
Summary of Average Rate Class Savings
Based on August 1997 Rates Adjusted for Inflation
Compared to Proposed October 2000 Standard Offer Rate

<u>Rate Class</u>	<u>Revenue 08/97 Normalized</u> (a)	<u>08/97 Average Rate Adjusted for Inflation</u> (b)	<u>Average Rate at October 2000 Proposed Std Offer Rate</u> (c)	<u>% Savings</u> (d)
R-1: Regular Residential	\$613,314,169 \$0.10795	\$0.12782	\$604,073,824 \$0.10633	17%
R-2: Low Income Residential	\$28,739,571 \$0.08235	\$0.10035	\$29,094,792 \$0.08337	17%
R-4: Large Residential	\$7,718,381 \$0.10044	\$0.11980	\$7,696,416 \$0.10016	16%
Total Residential	\$649,772,121 \$0.10640	\$0.12618	\$640,865,033 \$0.10494	17%
G-1: Small Commercial & Industrial	\$171,298,416 \$0.12064	\$0.14148	\$166,406,507 \$0.11720	17%
G-2: Medium Commercial & Industrial	\$210,268,937 \$0.09379	\$0.11264	\$207,710,505 \$0.09265	18%
G-3: Large Commercial & Industrial	\$556,431,953 \$0.08516	\$0.10337	\$551,315,378 \$0.08438	18%
Total Commercial & Industrial	\$937,999,307 \$0.09200	\$0.11068	\$925,432,390 \$0.09077	18%
Streetlights	\$23,948,807 \$0.20206	\$0.22885	\$22,710,093 \$0.19161	16%
Total Company	\$1,611,720,235 \$0.09815	\$0.11725	\$1,589,007,516 \$0.09677	17%

08/97 Normalized Revenue revenue based on bundled rates in effect 8/1/97 applied against 1998 units developed and used in Docket 96-25

- (a) February 24, 1998 Filing to Implement Massachusetts Electric Utility Restructuring Act, Exhibit PTZ-1, Revised
- (b) See pages 2-11 (Column (a) per kWh price inflated monthly at CPI-U + incremental fuel adjustment)
- (c) Billing units priced out at rates as of May 2000 and proposed October 2000 standard offer and R-4 distribution rates (pp. 12-16), and div kWhs in Docket 96-25
- (d) Column (b) vs Column (c)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment		R-1 Benchmark Rate (c)	Fuel Adjustment (d)	R-1 Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>	<u>CPI Index (a)</u>	<u>Percentage Change (b)</u>			
31-Jul-1997		160.5 1/		\$0.10795 2/		\$0.10795
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.10816	n/a	\$0.10816
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.10843	n/a	\$0.10843
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.10870	n/a	\$0.10870
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.10863	n/a	\$0.10863
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.10850	n/a	\$0.10850
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.10870	n/a	\$0.10870
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.10890	n/a	\$0.10890
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.10910	n/a	\$0.10910
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.10930	n/a	\$0.10930
31-May-1998	May-1998	162.8 1/	0.185%	\$0.10950	n/a	\$0.10950
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.10963	n/a	\$0.10963
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.10976	n/a	\$0.10976
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.10989	n/a	\$0.10989
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.11002	n/a	\$0.11002
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.11029	n/a	\$0.11029
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.11029	n/a	\$0.11029
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.11022	n/a	\$0.11022
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.11049	n/a	\$0.11049
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.11062	n/a	\$0.11062
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.11096	n/a	\$0.11096
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.11177	n/a	\$0.11177
31-May-1999	May-1999	166.2 1/	0.000%	\$0.11177	n/a	\$0.11177
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.11177	n/a	\$0.11177
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.11211	n/a	\$0.11211
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.11238	n/a	\$0.11238
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.11292	n/a	\$0.11292
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.11312	n/a	\$0.11312
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.11319	n/a	\$0.11319
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.11319	n/a	\$0.11319
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.11346	n/a	\$0.11346
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.11413	n/a	\$0.11413
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.11507	n/a	\$0.11507
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.11514	n/a	\$0.11514
31-May-2000	May-2000	171.3 1/	0.058%	\$0.11521	n/a	\$0.11521
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.11588	\$0.01194 3/	\$0.12782 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Page 1

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment		R-2 Benchmark Rate (c)	Fuel Adjustment (d)	R-2 Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>	<u>CPI Index (a)</u>	<u>Percentage Change (b)</u>			
31-Jul-1997		160.5 1/		\$0.08235 2/		\$0.08235
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.08251	n/a	\$0.08251
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.08272	n/a	\$0.08272
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.08293	n/a	\$0.08293
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.08288	n/a	\$0.08288
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.08278	n/a	\$0.08278
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.08293	n/a	\$0.08293
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.08308	n/a	\$0.08308
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.08323	n/a	\$0.08323
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.08338	n/a	\$0.08338
31-May-1998	May-1998	162.8 1/	0.185%	\$0.08353	n/a	\$0.08353
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.08363	n/a	\$0.08363
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.08373	n/a	\$0.08373
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.08383	n/a	\$0.08383
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.08393	n/a	\$0.08393
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.08414	n/a	\$0.08414
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.08414	n/a	\$0.08414
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.08409	n/a	\$0.08409
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.08430	n/a	\$0.08430
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.08440	n/a	\$0.08440
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.08466	n/a	\$0.08466
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.08528	n/a	\$0.08528
31-May-1999	May-1999	166.2 1/	0.000%	\$0.08528	n/a	\$0.08528
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.08528	n/a	\$0.08528
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.08554	n/a	\$0.08554
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.08575	n/a	\$0.08575
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.08616	n/a	\$0.08616
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.08631	n/a	\$0.08631
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.08636	n/a	\$0.08636
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.08636	n/a	\$0.08636
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.08657	n/a	\$0.08657
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.08708	n/a	\$0.08708
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.08780	n/a	\$0.08780
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.08785	n/a	\$0.08785
31-May-2000	May-2000	171.3 1/	0.058%	\$0.08790	n/a	\$0.08790
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.08841	\$0.01194 3/	\$0.10035 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Page 1

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment				
		CPI Index (a)	Percentage Change (b)	R-4 Benchmark Rate (c)	Fuel Adjustment (d)	R-4 Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>					
31-Jul-1997		160.5 1/		\$0.10044 2/		\$0.10044
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.10063	n/a	\$0.10063
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.10088	n/a	\$0.10088
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.10113	n/a	\$0.10113
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.10107	n/a	\$0.10107
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.10094	n/a	\$0.10094
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.10113	n/a	\$0.10113
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.10132	n/a	\$0.10132
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.10151	n/a	\$0.10151
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.10170	n/a	\$0.10170
31-May-1998	May-1998	162.8 1/	0.185%	\$0.10189	n/a	\$0.10189
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.10202	n/a	\$0.10202
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.10215	n/a	\$0.10215
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.10228	n/a	\$0.10228
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.10241	n/a	\$0.10241
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.10266	n/a	\$0.10266
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.10266	n/a	\$0.10266
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.10260	n/a	\$0.10260
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.10285	n/a	\$0.10285
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.10298	n/a	\$0.10298
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.10329	n/a	\$0.10329
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.10404	n/a	\$0.10404
31-May-1999	May-1999	166.2 1/	0.000%	\$0.10404	n/a	\$0.10404
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.10404	n/a	\$0.10404
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.10435	n/a	\$0.10435
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.10460	n/a	\$0.10460
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.10510	n/a	\$0.10510
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.10529	n/a	\$0.10529
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.10535	n/a	\$0.10535
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.10535	n/a	\$0.10535
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.10560	n/a	\$0.10560
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.10623	n/a	\$0.10623
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.10711	n/a	\$0.10711
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.10717	n/a	\$0.10717
31-May-2000	May-2000	171.3 1/	0.058%	\$0.10723	n/a	\$0.10723
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.10786	\$0.01194 3/	\$0.11980 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Page 1

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment		Residential Benchmark Rate (c)	Fuel Adjustment (d)	Residential Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>	<u>CPI Index (a)</u>	<u>Percentage Change (b)</u>			
31-Jul-1997		160.5 1/		\$0.10640 2/		\$0.10640
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.10659	n/a	\$0.10659
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.10686	n/a	\$0.10686
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.10713	n/a	\$0.10713
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.10706	n/a	\$0.10706
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.10693	n/a	\$0.10693
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.10713	n/a	\$0.10713
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.10733	n/a	\$0.10733
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.10753	n/a	\$0.10753
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.10773	n/a	\$0.10773
31-May-1998	May-1998	162.8 1/	0.185%	\$0.10793	n/a	\$0.10793
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.10806	n/a	\$0.10806
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.10819	n/a	\$0.10819
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.10832	n/a	\$0.10832
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.10845	n/a	\$0.10845
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.10872	n/a	\$0.10872
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.10872	n/a	\$0.10872
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.10865	n/a	\$0.10865
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.10892	n/a	\$0.10892
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.10905	n/a	\$0.10905
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.10938	n/a	\$0.10938
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.11018	n/a	\$0.11018
31-May-1999	May-1999	166.2 1/	0.000%	\$0.11018	n/a	\$0.11018
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.11018	n/a	\$0.11018
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.11051	n/a	\$0.11051
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.11078	n/a	\$0.11078
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.11131	n/a	\$0.11131
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.11151	n/a	\$0.11151
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.11158	n/a	\$0.11158
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.11158	n/a	\$0.11158
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.11185	n/a	\$0.11185
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.11251	n/a	\$0.11251
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.11344	n/a	\$0.11344
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.11351	n/a	\$0.11351
31-May-2000	May-2000	171.3 1/	0.058%	\$0.11358	n/a	\$0.11358
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.11424	\$0.01194 3/	\$0.12618 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

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3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment					
		CPI Index (a)	Percentage Change (b)	G-1 Benchmark Rate (c)	Fuel Adjustment (d)	G-1 Benchmark Rate (e)	
<u>Actual as of:</u>	<u>Inflation for:</u>						
31-Jul-1997		160.5 1/		\$0.12064 2/		\$0.12064	
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.12087	n/a	\$0.12087	
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.12117	n/a	\$0.12117	
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.12147	n/a	\$0.12147	
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.12139	n/a	\$0.12139	
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.12124	n/a	\$0.12124	
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.12147	n/a	\$0.12147	
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.12170	n/a	\$0.12170	
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.12193	n/a	\$0.12193	
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.12216	n/a	\$0.12216	
31-May-1998	May-1998	162.8 1/	0.185%	\$0.12239	n/a	\$0.12239	
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.12254	n/a	\$0.12254	
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.12269	n/a	\$0.12269	
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.12284	n/a	\$0.12284	
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.12299	n/a	\$0.12299	
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.12329	n/a	\$0.12329	
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.12329	n/a	\$0.12329	
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.12321	n/a	\$0.12321	
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.12351	n/a	\$0.12351	
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.12366	n/a	\$0.12366	
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.12404	n/a	\$0.12404	
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.12494	n/a	\$0.12494	
31-May-1999	May-1999	166.2 1/	0.000%	\$0.12494	n/a	\$0.12494	
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.12494	n/a	\$0.12494	
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.12532	n/a	\$0.12532	
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.12562	n/a	\$0.12562	
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.12622	n/a	\$0.12622	
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.12645	n/a	\$0.12645	
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.12653	n/a	\$0.12653	
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.12653	n/a	\$0.12653	
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.12683	n/a	\$0.12683	
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.12758	n/a	\$0.12758	
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.12863	n/a	\$0.12863	
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.12871	n/a	\$0.12871	
31-May-2000	May-2000	171.3 1/	0.058%	\$0.12879	n/a	\$0.12879	
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.12954	\$0.01194 3/	\$0.14148 4/	

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

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3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment					
		CPI Index (a)	Percentage Change (b)	G-2 Benchmark Rate (c)	Fuel Adjustment (d)	G-2 Benchmark Rate (e)	
<u>Actual as of:</u>	<u>Inflation for:</u>						
31-Jul-1997		160.5 1/		\$0.09379 2/		\$0.09379	
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.09397	n/a	\$0.09397	
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.09420	n/a	\$0.09420	
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.09443	n/a	\$0.09443	
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.09437	n/a	\$0.09437	
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.09425	n/a	\$0.09425	
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.09443	n/a	\$0.09443	
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.09461	n/a	\$0.09461	
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.09479	n/a	\$0.09479	
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.09497	n/a	\$0.09497	
31-May-1998	May-1998	162.8 1/	0.185%	\$0.09515	n/a	\$0.09515	
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.09527	n/a	\$0.09527	
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.09539	n/a	\$0.09539	
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.09551	n/a	\$0.09551	
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.09563	n/a	\$0.09563	
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.09586	n/a	\$0.09586	
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.09586	n/a	\$0.09586	
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.09580	n/a	\$0.09580	
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.09603	n/a	\$0.09603	
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.09615	n/a	\$0.09615	
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.09644	n/a	\$0.09644	
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.09714	n/a	\$0.09714	
31-May-1999	May-1999	166.2 1/	0.000%	\$0.09714	n/a	\$0.09714	
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.09714	n/a	\$0.09714	
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.09743	n/a	\$0.09743	
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.09766	n/a	\$0.09766	
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.09813	n/a	\$0.09813	
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.09831	n/a	\$0.09831	
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.09837	n/a	\$0.09837	
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.09837	n/a	\$0.09837	
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.09860	n/a	\$0.09860	
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.09918	n/a	\$0.09918	
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.10000	n/a	\$0.10000	
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.10006	n/a	\$0.10006	
31-May-2000	May-2000	171.3 1/	0.058%	\$0.10012	n/a	\$0.10012	
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.10070	\$0.01194 3/	\$0.11264 4/	

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

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3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment				
		CPI Index (a)	Percentage Change (b)	G-3 Benchmark Rate (c)	Fuel Adjustment (d)	G-3 Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>					
31-Jul-1997		160.5 1/		\$0.08516 2/		\$0.08516
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.08532	n/a	\$0.08532
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.08553	n/a	\$0.08553
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.08574	n/a	\$0.08574
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.08569	n/a	\$0.08569
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.08558	n/a	\$0.08558
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.08574	n/a	\$0.08574
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.08590	n/a	\$0.08590
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.08606	n/a	\$0.08606
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.08622	n/a	\$0.08622
31-May-1998	May-1998	162.8 1/	0.185%	\$0.08638	n/a	\$0.08638
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.08649	n/a	\$0.08649
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.08660	n/a	\$0.08660
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.08671	n/a	\$0.08671
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.08682	n/a	\$0.08682
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.08703	n/a	\$0.08703
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.08703	n/a	\$0.08703
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.08698	n/a	\$0.08698
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.08719	n/a	\$0.08719
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.08730	n/a	\$0.08730
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.08757	n/a	\$0.08757
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.08821	n/a	\$0.08821
31-May-1999	May-1999	166.2 1/	0.000%	\$0.08821	n/a	\$0.08821
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.08821	n/a	\$0.08821
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.08848	n/a	\$0.08848
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.08869	n/a	\$0.08869
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.08911	n/a	\$0.08911
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.08927	n/a	\$0.08927
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.08932	n/a	\$0.08932
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.08932	n/a	\$0.08932
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.08953	n/a	\$0.08953
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.09006	n/a	\$0.09006
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.09080	n/a	\$0.09080
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.09085	n/a	\$0.09085
31-May-2000	May-2000	171.3 1/	0.058%	\$0.09090	n/a	\$0.09090
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.09143	\$0.01194 3/	\$0.10337 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

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3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment				
		CPI Index (a)	Percentage Change (b)	C&I Benchmark Rate (c)	Fuel Adjustment (d)	C&I Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>					
31-Jul-1997		160.5 1/		\$0.09200 2/		\$0.09200
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.09217	n/a	\$0.09217
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.09240	n/a	\$0.09240
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.09263	n/a	\$0.09263
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.09257	n/a	\$0.09257
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.09246	n/a	\$0.09246
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.09263	n/a	\$0.09263
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.09280	n/a	\$0.09280
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.09297	n/a	\$0.09297
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.09314	n/a	\$0.09314
31-May-1998	May-1998	162.8 1/	0.185%	\$0.09331	n/a	\$0.09331
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.09342	n/a	\$0.09342
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.09353	n/a	\$0.09353
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.09364	n/a	\$0.09364
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.09375	n/a	\$0.09375
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.09398	n/a	\$0.09398
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.09398	n/a	\$0.09398
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.09392	n/a	\$0.09392
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.09415	n/a	\$0.09415
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.09426	n/a	\$0.09426
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.09455	n/a	\$0.09455
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.09524	n/a	\$0.09524
31-May-1999	May-1999	166.2 1/	0.000%	\$0.09524	n/a	\$0.09524
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.09524	n/a	\$0.09524
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.09553	n/a	\$0.09553
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.09576	n/a	\$0.09576
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.09622	n/a	\$0.09622
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.09639	n/a	\$0.09639
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.09645	n/a	\$0.09645
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.09645	n/a	\$0.09645
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.09668	n/a	\$0.09668
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.09725	n/a	\$0.09725
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.09805	n/a	\$0.09805
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.09811	n/a	\$0.09811
31-May-2000	May-2000	171.3 1/	0.058%	\$0.09817	n/a	\$0.09817
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.09874	\$0.01194 3/	\$0.11068 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

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3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment			
		CPI Index (a)	Percentage Change (b)	Streetlight Benchmark Rate (c)	Fuel Adjustment (d)
Actual as of:	Inflation for:				Streetlight Benchmark Rate (e)
31-Jul-1997		160.5 1/		\$0.20206 2/	\$0.20206
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.20244	n/a
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.20294	n/a
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.20344	n/a
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.20331	n/a
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.20306	n/a
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.20344	n/a
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.20382	n/a
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.20420	n/a
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.20458	n/a
31-May-1998	May-1998	162.8 1/	0.185%	\$0.20496	n/a
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.20521	n/a
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.20546	n/a
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.20571	n/a
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.20596	n/a
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.20646	n/a
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.20646	n/a
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.20633	n/a
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.20683	n/a
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.20708	n/a
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.20771	n/a
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.20922	n/a
31-May-1999	May-1999	166.2 1/	0.000%	\$0.20922	n/a
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.20922	n/a
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.20985	n/a
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.21035	n/a
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.21136	n/a
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.21174	n/a
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.21187	n/a
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.21187	n/a
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.21237	n/a
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.21363	n/a
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.21539	n/a
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.21552	n/a
31-May-2000	May-2000	171.3 1/	0.058%	\$0.21565	n/a
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.21691	\$0.01194 3/
					\$0.22885 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Page 1

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

		CPI Adjustment		Total Company Benchmark Rate (c)	Fuel Adjustment (d)	Total Company Benchmark Rate (e)
<u>Actual as of:</u>	<u>Inflation for:</u>	<u>CPI Index (a)</u>	<u>Percentage Change (b)</u>			
31-Jul-1997		160.5 1/		\$0.09815 2/		\$0.09815
31-Aug-1997	Aug-1997	160.8 1/	0.187%	\$0.09833	n/a	\$0.09833
30-Sep-1997	Sep-1997	161.2 1/	0.249%	\$0.09857	n/a	\$0.09857
31-Oct-1997	Oct-1997	161.6 1/	0.248%	\$0.09881	n/a	\$0.09881
30-Nov-1997	Nov-1997	161.5 1/	-0.062%	\$0.09875	n/a	\$0.09875
31-Dec-1997	Dec-1997	161.3 1/	-0.124%	\$0.09863	n/a	\$0.09863
31-Jan-1998	Jan-1998	161.6 1/	0.186%	\$0.09881	n/a	\$0.09881
28-Feb-1998	Feb-1998	161.9 1/	0.186%	\$0.09899	n/a	\$0.09899
31-Mar-1998	Mar-1998	162.2 1/	0.185%	\$0.09917	n/a	\$0.09917
30-Apr-1998	Apr-1998	162.5 1/	0.185%	\$0.09935	n/a	\$0.09935
31-May-1998	May-1998	162.8 1/	0.185%	\$0.09953	n/a	\$0.09953
30-Jun-1998	Jun-1998	163.0 1/	0.123%	\$0.09965	n/a	\$0.09965
31-Jul-1998	Jul-1998	163.2 1/	0.123%	\$0.09977	n/a	\$0.09977
31-Aug-1998	Aug-1998	163.4 1/	0.123%	\$0.09989	n/a	\$0.09989
30-Sep-1998	Sep-1998	163.6 1/	0.122%	\$0.10001	n/a	\$0.10001
31-Oct-1998	Oct-1998	164.0 1/	0.244%	\$0.10025	n/a	\$0.10025
30-Nov-1998	Nov-1998	164.0 1/	0.000%	\$0.10025	n/a	\$0.10025
31-Dec-1998	Dec-1998	163.9 1/	-0.061%	\$0.10019	n/a	\$0.10019
31-Jan-1999	Jan-1999	164.3 1/	0.244%	\$0.10043	n/a	\$0.10043
28-Feb-1999	Feb-1999	164.5 1/	0.122%	\$0.10055	n/a	\$0.10055
31-Mar-1999	Mar-1999	165.0 1/	0.304%	\$0.10086	n/a	\$0.10086
30-Apr-1999	Apr-1999	166.2 1/	0.727%	\$0.10159	n/a	\$0.10159
31-May-1999	May-1999	166.2 1/	0.000%	\$0.10159	n/a	\$0.10159
30-Jun-1999	Jun-1999	166.2 1/	0.000%	\$0.10159	n/a	\$0.10159
31-Jul-1999	Jul-1999	166.7 1/	0.301%	\$0.10190	n/a	\$0.10190
31-Aug-1999	Aug-1999	167.1 1/	0.240%	\$0.10214	n/a	\$0.10214
30-Sep-1999	Sep-1999	167.9 1/	0.479%	\$0.10263	n/a	\$0.10263
31-Oct-1999	Oct-1999	168.2 1/	0.179%	\$0.10281	n/a	\$0.10281
30-Nov-1999	Nov-1999	168.3 1/	0.059%	\$0.10287	n/a	\$0.10287
31-Dec-1999	Dec-1999	168.3 1/	0.000%	\$0.10287	n/a	\$0.10287
31-Jan-2000	Jan-2000	168.7 1/	0.238%	\$0.10311	n/a	\$0.10311
29-Feb-2000	Feb-2000	169.7 1/	0.593%	\$0.10372	n/a	\$0.10372
31-Mar-2000	Mar-2000	171.1 1/	0.825%	\$0.10458	n/a	\$0.10458
30-Apr-2000	Apr-2000	171.2 1/	0.058%	\$0.10464	n/a	\$0.10464
31-May-2000	May-2000	171.3 1/	0.058%	\$0.10470	n/a	\$0.10470
30-Jun-2000	Jun-2000	172.3 1/	0.584%	\$0.10531	\$0.01194 3/	\$0.11725 4/

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics

2/ Page 1

3/ Exhibit PTZ-9

4/ Column (c) + Column (d)

Massachusetts Electric Company
Proposed September 2000 Standard Offer Rate
Revenue Analysis for Rate R-1/ R-2

R-1/ R-2		Units (1)	8/1/97 Revenues (2)	9/1/00 Proposed Rate (3)	9/1/00 Proposed Revenues (4)	Comments
Section 1: Rate Design						
1 Customer Charge	R-1	9,754,932	\$64,382,551	\$5.81	\$56,676,155	
	R-2	674,780	\$2,928,545	\$3.77	\$2,543,921	
2 Interruptible Credit #1	R-1	512,530	(\$2,818,915)	(\$5.50)	(\$2,818,915)	
	Distribution-Related			(\$5.50)	(\$2,818,915)	
	R-2	30,336	(\$166,848)	(\$5.50)	(\$166,848)	
	Distribution-Related			(\$5.50)	(\$166,848)	
3 Interruptible Credit #2	R-1	426,388	(\$3,197,910)	(\$7.50)	(\$3,197,910)	
	Distribution-Related			(\$7.50)	(\$3,197,910)	
	R-2	20,999	(\$157,493)	(\$7.50)	(\$157,493)	
	Distribution-Related			(\$7.50)	(\$157,493)	
4 Energy Charge	R-1	5,681,290,363	\$376,839,990	\$0.09741	\$553,414,494	
	R-2	<u>348,983,400</u>	<u>\$15,194,737</u>	\$0.07701	<u>\$26,875,212</u>	
	Total kWh	6,030,273,763	\$392,034,727		\$580,289,706	= Lines 5 + 6
	R-1 Distribution Charge	5,681,290,363		\$0.02459	\$139,702,930	
	R-2 Distribution Charge	348,983,400		\$0.00420	\$1,465,730	
	R-1 Transmission Charge	5,681,290,363		\$0.00687	\$39,030,465	
	R-2 Transmission Charge	348,983,400		\$0.00687	\$2,397,516	
	R-1 Transition Charge	5,681,290,363		\$0.01191	\$67,664,168	
	R-2 Transition Charge	348,983,400		\$0.01190	\$4,152,902	
	R-1 Standard Service Charge	5,681,290,363		\$0.04994	\$283,723,641	
	R-2 Standard Service Charge	348,983,400		\$0.04994	\$17,428,231	
	R-1 DSM/Renewables Charge	5,681,290,363		\$0.00410	\$23,293,290	
	R-2 DSM/Renewables Charge	348,983,400		\$0.00410	\$1,430,832	
	R-1 Normalized Fuel & PPCA Revenue		\$178,108,453			
	R-2 Normalized Fuel & PPCA Revenue		\$10,940,630			
5 Total Design Revenue:	R-1		\$613,314,169		\$604,073,824	= Lines 1 + 2 + 3 + 4 + 7
	R-2		\$28,739,571		\$29,094,792	
Section 2: Summary						
1 Total Units -	Number of Bills:	<u>R-1</u> 9,754,932	<u>R-2</u> 674,780			Section 1
	Interruptible Credit #1:	512,530	30,336			Section 1
	Interruptible Credit #2:	426,388	20,999			Section 1
	KWh	5,681,290,363	348,983,400			Section 1
2 Total Design Revenue:		<u>R-1</u> \$613,314,169	<u>R-2</u> \$28,739,571	<u>R-1</u> \$604,073,824	<u>R-2</u> \$29,094,792	
	Total R-1/R-2		\$642,053,740		\$633,168,616	Section 1

S:\RADATA\1\2000meo\Std Offer\ptz13.123
Range: RATE-R4
Date: 31-Aug-2000
Time: 08:12 AM

Massachusetts Electric Company
Nantucket Electric Company
M.D.T.E. Docket No.
Exhibit PTZ-13
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Massachusetts Electric Company
Proposed September 2000 Standard Offer Rate
Revenue Analysis for Rate R-4

R-4	Units (1)	8/1/97 Revenues (2)	9/1/00 Proposed Rate (3)	9/1/00 Proposed Revenues (4)	Comments
Section 1: Rate Design					
1 Customer Charge	19,472	\$414,169	\$19.25	\$374,836	
2 Energy Charge:					
On Peak	26,839,617	\$3,597,582	\$0.15974	\$4,287,360	
Off Peak	<u>50,003,625</u>	<u>\$1,297,594</u>	\$0.06068	<u>\$3,034,220</u>	
Total kWh	76,843,242	\$4,895,176		\$7,321,580	= Lines 2 + 3
Distribution Charge-On Peak			\$0.06520	\$1,749,943	
Distribution Charge-Off Peak			\$0.00012	\$6,000	
Transmission Charge			\$0.00625	\$480,270	
Transition Charge-On Peak			\$0.03425	\$919,257	
Transition Charge-Off Peak			\$0.00027	\$13,501	
Standard Service Charge			\$0.04994	\$3,837,552	
DSM/Renewables Charge			\$0.00410	\$315,057	
Normalized Fuel & PPCA Revenue		\$2,409,036			
3 Total Design Revenue:		\$7,718,381		\$7,696,416	= Lines 1 + 4
Section 2: Summary					
1 Total Units -	Number of Bills:	19,472	\$414,169		Section 1
	On-Peak KWh:	26,839,617	\$3,597,582		Section 1
	Off-Peak KWh:	<u>50,003,625</u>	<u>\$1,297,594</u>		Section 1
	Total KWh:	76,843,242	\$5,309,345		Section 1
	Normalized Fuel & PPCA Revenue	<u>\$2,409,036</u>			
2 Total Design Revenue:		\$7,718,381		\$7,696,416	Section 1

Range: RATE-G1
 Date: 31-Aug-2000
 Time: 08:12 AM

Massachusetts Electric Company
 Nantucket Electric Company
 M.D.T.E. Docket No.
 Exhibit PTZ-13
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Massachusetts Electric Company
 Proposed September 2000 Standard Offer Rate
 Revenue Analysis for Rate G-1

G-1	Units (1)	8/1/97 Revenues (2)	9/1/00 Proposed Rate (3)	9/1/00 Proposed Revenues (4)	Comments
Section 1: Rate Design					
1 Customer Charge	1,018,343	\$9,572,424	\$8.32	\$8,472,614	
2 Unmetered Charge:	50,055	\$367,904	\$6.48	\$324,356	
3 Energy Charge:	1,419,905,735	\$116,844,043	\$0.11100	\$157,609,537	
Distribution Charge			\$0.03800	\$53,956,418	
Transmission Charge			\$0.00695	\$9,868,345	
Transition Charge			\$0.01201	\$17,053,068	
Standard Service Charge			\$0.04994	\$70,910,092	
DSM/Renewables Charge			\$0.00410	\$5,821,614	
Normalized Fuel & PPCA Revenue		<u>\$44,514,045</u>			
4 Total Design Revenue:		\$171,298,416		\$166,406,507	= Lines 1 + 2 + 3
Section 2: Summary					
1 Total Units -	Number of Bills:	1,018,343			Section 1
	Unmetered Charge:	50,055			Section 1
	KWh	1,419,905,735			Section 1
2 Total Design Revenue:		\$171,298,416		\$166,406,507	Section 1

Range: RATE-G2
 Date: 31-Aug-2000
 Time: 08:12 AM

Massachusetts Electric Company
 Nantucket Electric Company
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Massachusetts Electric Company
 Proposed September 2000 Standard Offer Rate
 Revenue Analysis for Rate G-2

G-2	Units (1)	8/1/97 Revenues (2)	9/1/00 Proposed Rate (3)	9/1/00 Proposed Revenues (4)	Comments
Section 1: Rate Design					
1 Customer Charge	133,940	\$2,287,695	\$15.23	\$2,039,906	
2 Demand Charges	7,026,110	<u>\$70,682,667</u>			
Distribution Charge			\$5.92	\$41,594,571	
Transition Charge			<u>\$1.32</u>	<u>\$9,274,465</u>	
Total			\$7.24	<u>\$50,869,036</u>	
3 Total Customer & Demand Revenues:		\$72,970,362		\$52,908,942	= Lines 1 + 2
4 Customer & Demand Proration Impact:	0.370536%	\$270,381	0.370536%	\$196,047	= Lines 3 * 4
5 Energy Charge:	2,241,900,237	\$66,875,884	\$0.06902	\$154,735,954	
Distribution Charge			\$0.00095	\$2,129,805	
Transmission Charge			\$0.00628	\$14,079,133	
Transition Charge			\$0.00775	\$17,374,727	
Standard Service Charge			\$0.04994	\$111,960,498	
DSM/Renewables Charge			\$0.00410	\$9,191,791	
6 Gross Revenues:		\$140,116,627		\$207,840,944	= Lines 3 + 4 + 5
6a Normalized Fuel & PPCA Revenue		\$70,283,572			
7 High Voltage Discount @ 1%	-0.032177%	(\$67,700)	-0.032177%	(\$66,877)	= Column (1) * Line 6
Distribution/Access/Std. Offer-Related				(\$62,347)	
Transmission-Related				(\$4,530)	
8 Transformer Owership Discount @ \$.45	141,249	<u>(\$63,562)</u>	(\$0.45)	<u>(\$63,562)</u>	= Columns (1) * (3)
9 Total Design Revenue:		\$210,268,937		\$207,710,505	= Lines 6 + 7 + 8

Section 2: Summary

1 Total Units -	Number of Bills:	133,940	Section 1
	KW:	7,026,110	Section 1
	KWh	2,241,900,237	Section 1
2 Total Design Revenue:		\$210,268,937	\$207,710,505 Section 1

Massachusetts Electric Company
Proposed September 2000 Standard Offer Rate
Revenue Analysis for Rate G-3

G-3	Units (1)	8/1/97 Revenues (2)	9/1/00 Proposed Rate (3)	9/1/00 Proposed Revenues (4)	Comments
Section 1: Rate Design					
1 Customer Charge	25,582	\$1,916,092	\$67.27	\$1,720,901	
2 Demand Charges	15,699,504	<u>\$155,111,100</u>			
Distribution Charge			\$3.63	\$56,989,200	
Transition Charge			<u>\$2.22</u>	<u>\$34,852,899</u>	
Total			\$5.85	<u>\$91,842,098</u>	
3 Total Customer & Demand Revenues:		\$157,027,192		\$93,562,999	= Lines 1 + 2
4 Customer & Demand Proration Impact:	-0.363529%	<u>(\$570,839)</u>	-0.363529%	<u>(\$340,129)</u>	= Lines 3 * 4
5 Total Customer & Demand Prorated Revenues:		\$156,456,353		\$93,222,870	= Line 3 + 4
6 Energy Charge:					
On-Peak	2,988,154,262	\$112,264,956	\$0.07692	\$229,848,826	
Off-Peak	<u>3,545,534,158</u>	<u>\$89,489,282</u>	\$0.06623	<u>\$234,820,727</u>	
Total kWh	6,533,688,420	\$201,754,238		\$464,669,553	
Distribution Charge-On Peak			\$0.01078	\$32,212,303	
Distribution Charge-Off Peak			\$0.00009	\$319,098	
Transmission Charge			\$0.00554	\$36,196,634	
Transition Charge			\$0.00656	\$42,860,996	
Standard Service Charge			\$0.04994	\$326,292,400	
DSM/Renewables Charge			\$0.00410	\$26,788,123	
7 Total Bill		\$358,210,591		\$557,892,423	= Lines 3 + 4 + 5
7a Normalized Fuel & PPCA Revenue		\$204,831,132			
8 High Voltage Discount 1%:	-0.635522%	(\$3,578,254)	-0.635522%	(\$3,545,529)	
Distribution/Access/Std. Offer-Related				(\$3,315,492)	
Transmission-Related				(\$230,038)	
9 Transformer Ownership Discount -\$.45:	5,895,078	(\$2,652,785)	(\$0.45)	(\$2,652,785)	
10 115kV Transmission Discount -\$2.14:	176,977	<u>(\$378,731)</u>	(\$2.14)	<u>(\$378,731)</u>	
11 Total Design Revenue:		\$556,431,953		\$551,315,378	= Lines 7 + 8 + 9 + 10
Section 2: Summary					
1 Total Units -	Number of Bills:	25,582			Section 1
	KW:	15,699,504			Section 1
	On-Peak KWh:	2,988,154,262			Section 1
	Off-Peak KWh:	<u>3,545,534,158</u>			Section 1
	Total KWh:	6,533,688,420			Section 1
2 Total Design Revenue:		\$556,431,953		\$551,315,378	Section 1

MASSACHUSETTS ELECTRIC COMPANY
NANTUCKET ELECTRIC COMPANY
Witness: Zschokke

Exhibit PTZ-14

Streetlight Savings for October 1, 2000 Proposed Rate Change

15% Compliance
Mass. Electric Streetlight Savings
on a per light basis

Sodium Vapor (S-3.A, Division of Ownership)

15% Compliance
Mass. Electric Streetlight Savings
on a per light basis
For Proposed October 2000 Standard Offer Rate Change

	kWh per Luminaire (a)	Current Annual Charge (b)	\$0.00009 Net Std Offer Default Adjustment (c)	\$0.00526 Transmission Charge (d)	\$0.01201 Transition Charge (e)	\$0.00410 DSM/Renew Charge (f)	\$0.04994 Standard Offer Charge (g)	August 1 1997 Bill (i)	Inflation Adjusted August 1 1997 Bill (j)	Percent Increase (k)	\$0.00000 Temporary Transition Credit (l)	Total Bill After Temporary Transition Credit (m)	Temporary Distribution Credit (n)	Adjusted Total Bill (o)	Adjusted Percent Increase (p)	Adjusted Annual Rate (q)	June 2000 Quantity (r)	Annual Reduction (s)
Sodium Vapor (S-3 B, Customer Owned)	248	\$14.50	\$0.02	\$1.30	\$2.98	\$1.02	\$12.39	\$33.09	\$37.48	14.1%	\$0.00	\$32.21	\$0.00	\$32.21	14.1%	n/a	54	(\$16.20)
	349	\$17.13	\$0.03	\$1.84	\$4.19	\$1.43	\$17.43	\$42.05	\$46.54	13.4%	\$0.00	\$42.05	\$0.00	\$42.05	14.0%	\$16.83	121	(\$106.48)
	490	\$19.55	\$0.04	\$2.58	\$5.88	\$2.01	\$24.47	\$54.53	\$62.38	12.6%	\$0.00	\$54.53	\$0.00	\$54.53	14.0%	\$18.67	270	(\$117.20)
	1,284	\$29.63	\$0.12	\$6.75	\$15.42	\$5.26	\$64.12	\$120.05	\$135.97	10.8%	\$0.00	\$120.05	\$0.00	\$120.05	14.0%	\$25.27	221	(\$1,507.22)
	1,968	\$45.16	\$0.18	\$10.35	\$23.64	\$8.07	\$98.28	\$185.68	\$207.97	10.7%	\$0.00	\$185.68	\$0.00	\$185.68	14.0%	\$38.34	0	\$-0.00
	4,578	\$108.14	\$0.41	\$24.08	\$54.98	\$18.77	\$228.63	\$430.32	\$487.37	10.7%	\$0.00	\$430.32	\$0.00	\$430.32	14.0%	\$92.27	0	\$-0.00
Incandescent (S-1)	440	\$48.22	\$0.04	\$2.31	\$5.28	\$1.80	\$21.97	\$79.62	\$94.72	15.9%	\$0.00	\$79.62	\$0.00	\$79.62	15.9%	n/a	0	\$-0.00
	845	\$59.66	\$0.08	\$4.44	\$10.15	\$3.46	\$42.20	\$119.99	\$140.09	14.3%	\$0.00	\$119.99	\$0.00	\$119.99	14.3%	\$72.53	0	\$-0.00
	1,872	\$76.27	\$0.17	\$9.85	\$22.48	\$7.68	\$93.49	\$211.69	\$239.76	12.4%	\$0.00	\$211.69	\$0.00	\$211.69	14.0%	\$76.82	0	\$-0.00
	2,591	\$83.84	\$0.23	\$13.63	\$31.12	\$10.62	\$129.39	\$268.83	\$304.43	11.7%	\$0.00	\$268.83	\$0.00	\$268.83	14.0%	\$76.82	0	\$-0.00
Incandescent (S-20)	440	\$44.56	\$0.04	\$2.31	\$5.28	\$1.80	\$21.97	\$79.62	\$90.10	15.7%	\$0.00	\$79.62	\$0.00	\$79.62	15.7%	n/a	5	(\$13.55)
	845	\$59.66	\$0.08	\$4.44	\$10.15	\$3.46	\$42.20	\$119.99	\$140.09	11.0%	\$0.00	\$119.99	\$0.00	\$119.99	14.0%	\$17.96	0	\$-0.00
	1,872	\$76.27	\$0.17	\$9.85	\$22.48	\$7.68	\$93.49	\$211.69	\$239.76	5.8%	\$0.00	\$211.69	\$0.00	\$211.69	14.0%	\$20.28	0	\$-0.00
	2,591	\$83.84	\$0.23	\$13.63	\$31.12	\$10.62	\$129.39	\$268.83	\$304.43	0.4%	\$0.00	\$268.83	\$0.00	\$268.83	14.0%	\$70.22	0	\$-0.00
Mercury Vapor (S-1)	561	\$48.31	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$88.37	\$104.05	15.1%	\$0.00	\$88.37	\$0.00	\$88.37	15.1%	n/a	1,704	(\$613.44)
	908	\$53.72	\$0.08	\$4.78	\$10.91	\$3.72	\$45.33	\$121.35	\$137.44	13.7%	\$0.00	\$121.35	\$0.00	\$121.35	14.0%	\$53.36	27	(\$24.84)
	1,248	\$69.26	\$0.11	\$6.56	\$14.99	\$5.12	\$62.33	\$158.37	\$183.07	13.5%	\$0.00	\$158.37	\$0.00	\$158.37	14.0%	\$68.34	1,244	(\$3,508.08)
	1,897	\$89.17	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$227.71	\$257.90	12.9%	\$0.00	\$227.71	\$0.00	\$227.71	14.0%	\$86.35	27	(\$316.71)
	4,569	\$157.80	\$0.41	\$24.03	\$54.87	\$18.73	\$228.18	\$484.88	\$549.17	11.9%	\$0.00	\$484.88	\$0.00	\$484.88	14.0%	\$146.07	0	\$-0.00
	561	\$57.23	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$88.37	\$104.05	15.6%	\$0.00	\$88.37	\$0.00	\$88.37	15.6%	n/a	1,742	(\$2,351.70)
	908	\$76.69	\$0.08	\$4.78	\$10.91	\$3.72	\$45.33	\$121.35	\$137.44	14.9%	\$0.00	\$121.35	\$0.00	\$121.35	14.0%	\$105.75	546	(\$4,722.90)
	1,897	\$107.10	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$227.71	\$257.90	13.5%	\$0.00	\$227.71	\$0.00	\$227.71	14.0%	\$186.40	0	\$-0.00

30-Aug-2000

15% Compliance
Mass. Electric Streetlight Savings
on a per light basis
For Proposed October 2000 Standard Offer Rate Change

	kWh per Luminaire (a)	Current Annual Charge (b)	Net Std Offer Default Adjustment (c)	\$0.00526 Transmission Charge (d)	\$0.01201 Transition Charge (e)	\$0.00410 DSM/Renew Charge (f)	\$0.04994 Standard Offer Change (g)	Total Bill (h)	Adjusted August 1 1997 Bill (i)		Percent Increase (k)	Temporary Transition Credit (l)	After Total Bill (m)		Adjusted Total Bill (o)	Adjusted Percent Increase (p)	Adjusted Annual Rate (q)	June 2000 Quantity (r)	Annual Reduction (s)	
									August 1 1997 Bill (i)	Adjusted August 1 1997 Bill (j)			Temporary Transition Credit (m)	Temporary Distribution Credit (n)						
Mercury Vapor (S-2.0)	4,000	\$39.14	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$79.20	\$81.67	\$92.50	14.4%	\$0.00	\$79.20	\$0.00	\$79.20	14.4%	n/a	104	(\$79.04)	
	8,000	\$48.75	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$113.59	\$115.83	\$131.19	13.4%	\$0.00	\$113.59	\$0.00	\$113.59	14.0%	\$47.99	5	(\$13.75)	
	11,000	\$47.01	\$0.11	\$6.56	\$14.99	\$5.12	\$62.33	\$136.12	\$136.92	\$155.07	12.2%	\$0.00	\$136.12	\$0.00	\$133.37	14.0%	\$44.26	99	(\$546.48)	
	22,000	\$56.45	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$191.90	\$191.35	\$216.72	11.5%	\$0.00	\$191.90	\$0.00	\$186.38	14.0%	\$50.93	13	(\$346.97)	
	63,000	\$24.19	\$0.41	\$24.03	\$54.87	\$18.73	\$228.18	\$302.03	\$282.68	\$320.16	5.7%	\$0.00	\$302.03	\$0.00	\$275.34	14.0%	(\$50.88)	22	(\$27.28)	
	4,000 Post Top	\$44.54	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$84.60	\$87.67	\$99.29	14.8%	\$0.00	\$84.60	\$0.00	\$84.60	14.8%	n/a	17	(\$24.65)	
	8,000 Post Top	\$42.92	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$107.76	\$109.35	\$123.85	13.0%	\$0.00	\$107.76	\$0.00	\$106.52	14.0%	\$41.68	3	(\$71.82)	
	22,000 Flood	\$105.69	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$241.14	\$246.07	\$278.70	13.5%	\$0.00	\$241.14	\$0.00	\$239.69	14.0%	\$104.24	9	(\$10.26)	
	63,000 Flood	\$9.18	\$0.41	\$24.03	\$54.87	\$18.73	\$228.18	\$335.40	\$319.76	\$362.16	7.4%	\$0.00	\$335.40	\$0.00	\$311.46	14.0%	(\$14.76)	0	\$-0.00	
Mercury Vapor (S-2)	4,000	\$21.02	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$61.08	\$61.53	\$69.69	12.4%	\$0.00	\$61.08	\$0.00	\$59.94	14.0%	\$19.88	9	(\$10.26)	
	8,000	\$25.68	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$90.52	\$90.19	\$102.15	11.4%	\$0.00	\$90.52	\$0.00	\$87.85	14.0%	\$23.01	0	\$-0.00	
	22,000	\$39.66	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$175.11	\$172.70	\$195.60	10.5%	\$0.00	\$175.11	\$0.00	\$168.22	14.0%	\$32.77	0	\$-0.00	
	63,000	\$78.56	\$0.41	\$24.03	\$54.87	\$18.73	\$228.18	\$404.78	\$396.84	\$449.45	9.9%	\$0.00	\$404.78	\$0.00	\$386.53	14.0%	\$60.31	0	\$-0.00	
	22,000 Flood	\$48.62	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$184.07	\$182.66	\$206.88	11.0%	\$0.00	\$184.07	\$0.00	\$177.92	14.0%	\$42.47	0	\$-0.00	
	63,000 Flood	\$87.52	\$0.41	\$24.03	\$54.87	\$18.73	\$228.18	\$413.74	\$406.80	\$460.74	10.2%	\$0.00	\$413.74	\$0.00	\$396.24	14.0%	\$70.02	1	(\$17.50)	
	4,000 Post Top	\$63.99	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$104.05	\$109.39	\$123.89	16.0%	\$0.00	\$104.05	\$0.00	\$104.05	16.0%	n/a	0	\$-0.00	
	8,000 Post Top	\$58.25	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$123.09	\$126.39	\$143.15	14.0%	\$0.00	\$123.09	\$0.00	\$123.09	14.0%	n/a	0	\$-0.00	
	22,000	\$45.61	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$88.87	\$88.87	\$100.65	14.9%	\$0.00	\$85.67	\$0.00	\$85.67	14.9%	n/a	0	\$-0.00	
Mercury Vapor (S-3.A Division of Ownership)	4,000	\$53.50	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$118.34	\$121.11	\$137.17	13.7%	\$0.00	\$118.34	\$0.00	\$117.97	14.0%	\$53.13	0	\$-0.00	
	8,000	\$53.50	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$118.34	\$121.11	\$137.17	13.7%	\$0.00	\$118.34	\$0.00	\$117.97	14.0%	\$53.13	0	\$-0.00	
	22,000	\$90.90	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$226.35	\$229.63	\$260.08	13.0%	\$0.00	\$226.35	\$0.00	\$223.67	14.0%	\$88.22	14	(\$37.52)	
	63,000	\$169.24	\$0.41	\$24.03	\$54.87	\$18.73	\$228.18	\$495.46	\$497.60	\$563.57	12.1%	\$0.00	\$495.46	\$0.00	\$484.68	14.0%	\$158.46	0	\$-0.00	
	4,000	\$11.71	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$31.77	\$31.19	\$37.98	10.7%	\$0.00	\$31.77	\$0.00	\$31.77	14.0%	\$9.81	39	(\$74.10)	
	8,000	\$17.64	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$82.48	\$81.27	\$92.05	10.4%	\$0.00	\$82.48	\$0.00	\$79.17	14.0%	\$14.33	80	(\$264.80)	
	22,000	\$37.33	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$172.78	\$170.11	\$192.66	10.3%	\$0.00	\$172.78	\$0.00	\$165.69	14.0%	\$30.24	1	(\$7.09)	
	Mercury Vapor (S-3.B Customer Owned)	4,000	\$11.71	\$0.05	\$2.95	\$6.74	\$2.30	\$28.02	\$31.77	\$31.19	\$37.98	10.7%	\$0.00	\$31.77	\$0.00	\$31.77	14.0%	\$9.81	39	(\$74.10)
		8,000	\$17.64	\$0.08	\$4.78	\$10.91	\$3.72	\$45.35	\$82.48	\$81.27	\$92.05	10.4%	\$0.00	\$82.48	\$0.00	\$79.17	14.0%	\$14.33	80	(\$264.80)
22,000		\$37.33	\$0.17	\$9.98	\$22.78	\$7.78	\$94.74	\$172.78	\$170.11	\$192.66	10.3%	\$0.00	\$172.78	\$0.00	\$165.69	14.0%	\$30.24	1	(\$7.09)	

30-Aug-2000

15% Compliance
Mass. Electric Streetlight Savings
on a per light basis
For Proposed October 2000 Standard Offer Rate Change

Poles	kWh per Luminaire (a)	Current Annual Charge (b)	Net Std Offer Default Adjustment (c)	Transmission Charge (d)	Transition Charge (e)	DSM/Renew Charge (f)	Standard Offer Charge (g)	Total Bill (h)	August 1 1997		Adjusted August 1 1997 Bill (j)	Percent Increase (k)	Temporary Transition Credit		Adjusted Total Bill (o)	Adjusted Percent Increase (p)	Adjusted Annual Rate (q)	June 2000 Quantity (r)	Annual Reduction (s)
									Bill (i)	Credit (l)			Bill (m)	Credit (n)					
P	Wood	\$41.53	n/a	n/a	n/a	n/a	n/a	\$41.90	\$46.56	\$52.73	20.5%	\$41.90	\$0.00	\$41.90	20.5%	n/a	n/a		
A	Wood Shared	\$20.69	n/a	n/a	n/a	n/a	n/a	\$20.95	\$23.28	\$26.37	20.6%	\$20.95	\$0.00	\$20.95	20.6%	n/a	n/a		
R	Non-Metallic	\$48.95	n/a	n/a	n/a	n/a	n/a	\$49.36	\$54.84	\$62.11	20.5%	\$49.36	\$0.00	\$49.36	20.5%	n/a	n/a		
C	Fiber/glass<25	\$102.25	n/a	n/a	n/a	n/a	n/a	\$102.92	\$114.36	\$129.52	20.5%	\$102.92	\$0.00	\$102.92	20.5%	n/a	n/a		
D	Fiber/glass>25	\$171.03	n/a	n/a	n/a	n/a	n/a	\$172.04	\$191.16	\$216.50	20.5%	\$172.04	\$0.00	\$172.04	20.5%	n/a	n/a		
Y	Non Metal	\$50.88	n/a	n/a	n/a	n/a	n/a	\$50.88	\$57.00	\$64.56	21.2%	\$50.88	\$0.00	\$50.88	21.2%	n/a	n/a		
Z	Metal	\$112.35	n/a	n/a	n/a	n/a	n/a	\$112.35	\$125.64	\$142.30	21.0%	\$112.35	\$0.00	\$112.35	21.0%	n/a	n/a		
F	Metal Embedded	\$49.59	n/a	n/a	n/a	n/a	n/a	\$49.59	\$55.56	\$62.93	21.2%	\$49.59	\$0.00	\$49.59	21.2%	n/a	n/a		
T	Metal With Base	\$127.50	n/a	n/a	n/a	n/a	n/a	\$127.50	\$142.56	\$161.46	21.0%	\$127.50	\$0.00	\$127.50	21.0%	n/a	n/a		
H	Metal With Base	\$63.67	n/a	n/a	n/a	n/a	n/a	\$63.67	\$71.28	\$80.73	21.1%	\$63.67	\$0.00	\$63.67	21.1%	n/a	n/a		

(a)	Per Mass. Electric's currently effective streetlight tariffs	Total	8,996	Total	8,996	(\$24,500.89)
(b)	Per Mass. Electric's currently effective streetlight tariffs			Q4 2000	25.00%	(\$6,125.22)
(c)	Column (a) x Column (e) top					
(d)	Column (a) x Column (d) top					
(e)	Column (a) x Column (e) top					
(f)	Column (a) x Column (f) top					
(g)	Column (a) x Column (g) top					
(h)	Column (b) + Column (c) + Column (d) + Column (e) + Column (f) + Column (g)					
(i)	Bill based on Mass. Electric's rates in effect on August 1, 1997					
(j)	Column (h) adjusted for inflation from August 1, 1997 through June 30, 2000 (see p. 5 for multiplier applied to Column (i))					
(k)	Column (h) vs. Column (j)					
(l)	Column (a) x Column (j) top					
(m)	Column (b) + Column (j)					
(n)	[Column (j) x 15%, truncated after 2 decimal places] - [Column (j) + Column (l)], amount to get to 15%					
(o)	Column (m) + Column (n)					
(p)	Column (j) vs. Column (o)					
(q)	Column (b) + Column (n)					
(r)	Number of units of light type requiring distribution credit					
(s)	Column (n) x Column (r)					

Massachusetts Electric Company
Determination of Statutory Benchmark, Adjusted for Inflation
August 1, 1997 to June 30, 2000

	CPI Adjustment				Streetlight Benchmark Rate (e)	Streetlight Multiplier (f)
	CPI Index (a)	Percentage Change (b)	Streetlight Benchmark Rate (c)	Fuel Adjustment (d)		
Actual as of:	Inflation for:					
31-Jul-1997	160.5 1/		\$0.20206 2/		\$0.20206	1.00000
31-Aug-1997	160.8 1/	0.187%	\$0.20244	n/a	\$0.20244	1.001881
30-Sep-1997	161.2 1/	0.249%	\$0.20294	n/a	\$0.20294	1.004355
31-Oct-1997	161.6 1/	0.248%	\$0.20344	n/a	\$0.20344	1.006830
30-Nov-1997	161.5 1/	-0.062%	\$0.20331	n/a	\$0.20331	1.006186
31-Dec-1997	161.3 1/	-0.124%	\$0.20306	n/a	\$0.20306	1.004949
31-Jan-1998	161.6 1/	0.186%	\$0.20344	n/a	\$0.20344	1.006830
28-Feb-1998	161.9 1/	0.186%	\$0.20382	n/a	\$0.20382	1.008710
31-Mar-1998	162.2 1/	0.185%	\$0.20420	n/a	\$0.20420	1.010591
30-Apr-1998	162.5 1/	0.185%	\$0.20458	n/a	\$0.20458	1.012472
31-May-1998	162.8 1/	0.185%	\$0.20496	n/a	\$0.20496	1.014352
30-Jun-1998	163.0 1/	0.123%	\$0.20521	n/a	\$0.20521	1.015589
31-Jul-1998	163.2 1/	0.123%	\$0.20546	n/a	\$0.20546	1.016827
31-Aug-1998	163.4 1/	0.123%	\$0.20571	n/a	\$0.20571	1.018064
30-Sep-1998	163.6 1/	0.122%	\$0.20596	n/a	\$0.20596	1.019301
31-Oct-1998	164.0 1/	0.244%	\$0.20646	n/a	\$0.20646	1.021776
30-Nov-1998	164.0 1/	0.000%	\$0.20646	n/a	\$0.20646	1.021776
31-Dec-1998	163.9 1/	-0.061%	\$0.20633	n/a	\$0.20633	1.021132
31-Jan-1999	164.3 1/	0.244%	\$0.20683	n/a	\$0.20683	1.023607
28-Feb-1999	164.5 1/	0.122%	\$0.20708	n/a	\$0.20708	1.024844
31-Mar-1999	165.0 1/	0.304%	\$0.20771	n/a	\$0.20771	1.027962
30-Apr-1999	166.2 1/	0.727%	\$0.20922	n/a	\$0.20922	1.035435
31-May-1999	166.2 1/	0.000%	\$0.20922	n/a	\$0.20922	1.035435
30-Jun-1999	166.2 1/	0.000%	\$0.20922	n/a	\$0.20922	1.035435
31-Jul-1999	166.7 1/	0.301%	\$0.20985	n/a	\$0.20985	1.038553
31-Aug-1999	167.1 1/	0.240%	\$0.21035	n/a	\$0.21035	1.041027
30-Sep-1999	167.9 1/	0.479%	\$0.21136	n/a	\$0.21136	1.046026
31-Oct-1999	168.2 1/	0.179%	\$0.21174	n/a	\$0.21174	1.047907
30-Nov-1999	168.3 1/	0.059%	\$0.21187	n/a	\$0.21187	1.048550
31-Dec-1999	168.3 1/	0.000%	\$0.21187	n/a	\$0.21187	1.048550
31-Jan-2000	168.7 1/	0.238%	\$0.21237	n/a	\$0.21237	1.051024
29-Feb-2000	169.7 1/	0.593%	\$0.21363	n/a	\$0.21363	1.057260
31-Mar-2000	171.1 1/	0.825%	\$0.21539	n/a	\$0.21539	1.065971
30-Apr-2000	171.2 1/	0.058%	\$0.21552	n/a	\$0.21552	1.066614
31-May-2000	171.3 1/	0.058%	\$0.21565	n/a	\$0.21565	1.067257
30-Jun-2000	172.3 1/	0.584%	\$0.21691	\$0.01194 3/	\$0.22885 4/	1.132584

1/ Historical Consumer Price Index - All Urban Consumers (CPI-U) obtained from the Bureau of Labor Statistics
2/ Exhibit PTZ-13, page 1
3/ Exhibit PTZ-9
4/ Column (c) + Column (d)